# **Asset Management Report**

— BUREAU OF —
RECLAMATION

Pursuant to the John D. Dingell, Jr. Conservation, Management, and Recreation Act of March 12, 2019

## **Background**

The John D. Dingell, Jr. Conservation, Management, and Recreation Act, P.L. 116-9, Title VIII – Water and Power, Subtitle G - Bureau of Reclamation Transparency, Sections 8601-8603 (Reclamation Transparency Act) requires the Bureau of Reclamation to provide Congress with a detailed assessment of Major Rehabilitation and Replacement (MR&R) long-term capital and repair needs, categorization of repair needs, and regular reporting of information related to Reclamation's investments in infrastructure. The report to Congress must include an itemized list of MR&R information, guidance that describes the applicability of a risk categorization system, and budget-level cost estimates, as reported in annual funding requests for individual activities. The initial Asset Management Report must be submitted by March 2021, with updates required every two years thereafter.

This initial Asset Management Report describes the actions that the Bureau of Reclamation is taking in order to fulfill the requirements of the Reclamation Transparency Act, including an identification of all relevant MR&R activities, a process for categorizing the activities in order to determine funding priorities, and plans for how to improve the efficiency and transparency of reporting MR&R funding needs.

## **Funding for Major Rehabilitation and Replacement Activities**

The purpose of collecting MR&R information on Reclamation's infrastructure is to evaluate and report the condition of all Reclamation facilities and costs associated with these activities. regardless of the funding category. MR&R activities include all extraordinary maintenance (XM) activities, Safety of Dams program modifications, and deferred maintenance on a Reclamation facility that is intended to ensure the continued safe and reliable delivery of authorized Project benefits. Reclamation collects MR&R data at reserved works facilities (Reclamation operated and maintained) and transferred works facilities (non-Federal partner operated and maintained (operating partners e.g., irrigation districts)). To date Reclamation has identified approximately 2,800 activities with estimates totaling \$11.9 billion over the next 30 years (2021 to 2050), of which approximately 80 percent represent a preliminary cost estimate. A list of MR&R activities is attached in the Appendix of this report.

Funding of MR&R activities relies on a mix of appropriated and non-appropriated sources. Reclamation directs a substantial portion of its annual appropriations toward addressing the MR&R activities at water and power reserved works and a lesser amount toward the Federal share of completing maintenance on transferred works. The chart below identifies anticipated funding categories for MR&R activities for FY 2021-2025. The anticipated estimated total funding for these projects is \$4.6 billion. Approximately \$2.3 billion dollars of planned MR&R activities are expected to be funded by Reclamation appropriations over the next five years.

## FY 2021-2025 \$4.6 B Anticipated MR&R Needs Estimate by Funding Category



Figure 1. MR&R activities anticipated to be funded in FY 2021-2025 by Funding Category.

# Major Rehabilitation & Replacement Activities by the Numbers

# FY 2017-2020 Accomplishments

- 639 Total MR&R activities addressed
- \$1 B in estimated MR&R costs addressed

### **Next 30 Years**

 \$4.6 B
 \$8.6 B
 \$11.9 B

 5 Year
 10 Year
 30 Year

- Over 2,800 MR&R Activities planned over the next 30 years
- Approximately 80 percent of activities have been identified at a preliminary cost estimate
- Comprehensive, long-term planning strategies will be critical to invest limited appropriations to address increasing MR&R funding needs
- Financing strategies will need to be developed to address MR&R needs at all facilities to ensure safety and reliability of Reclamation's infrastructure

## Dam Safety and Infrastructure Major Rehabilitation and Replacement Contacts

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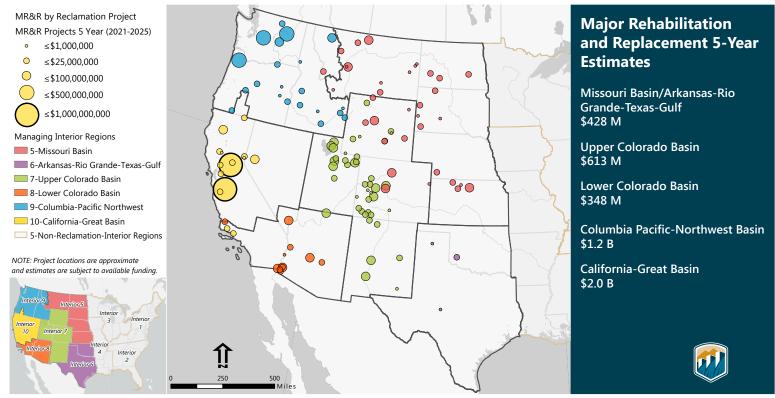


Figure 2. Map showing number of MR&R activities funded in FY 2021-2025 by Department of the Interior Regions.

## **Categorization of Activities**

The Reclamation Transparency Act also requires Reclamation to identify a system for categorizing MR&R activities based on a comparison between the benefit of the activity, the risk of not conducting the activity, and the costs associated with the activity. The categories range from A, for those activities that present a higher risk of negative consequences if they are not completed and are thus of the greatest relative importance, to E, for those activities of less importance with a relatively low risk of negative consequences if they are not completed. Category A activities are more complex and time-consuming to complete.

# MR&R Risk and Benefit Categorization

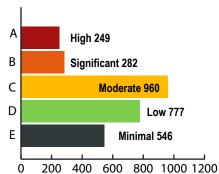


Figure 3. MR&R Activities identified for funding in the FY 2021-2050 Period, organized by MR&R Risk and Benefit Categorization.

Figure 3 shows the MR&R activities identified in the FY 2021–2050 timeframe by category. In 2016, the reporting period was expanded from 5 years to 30 years, and thus, the number of reported MR&R activities has increased. Activities are reported at the field, regional, or program office level. Some offices currently do not have the capability to report beyond the 5-year period, and Reclamation will continue to work to identify needs over the 30-year timeframe to get a better idea of the long-term needs of all facilities.

## **Data Reporting Processes**

The Reclamation Transparency Act also specifies that the initial and biennial reports to Congress describe the agency's effort to standardize and streamline data reporting processes across regions. Reclamation issued Reclamation's Infrastructure Investment Strategy (Strategy) in June 2015 to improve the characterization and reporting of anticipated repair needs of its assets. Initial implementation of Reclamation's Strategy focused on improving the quality of the MR&R data at reserved works facilities, DM reporting, and outreach to Reclamation transferred works operators. The agency has incorporated a centralized MR&R SharePoint solution and visualization and business analytics tools to streamline the data reporting process and provide users access to analyses of MR&R data, including categorization and funding for both reserved and transferred works by activity. This approach has increased the value and access of MR&R data across Reclamation.

Reclamation continues to engage external stakeholders through formal and informal discussions at the local and regional levels on implementation of infrastructure needs and financing options.

### **Future Actions**

Reclamation has been in partnership with non-federal operating entities of transferred works for many years to ensure Reclamation's facilities, buildings, structures, project features, power production equipment, and recreation facilities are maintained reliably. Reclamation will continue to improve the overall quality of asset management data over time to better inform decision-making throughout Reclamation.



# **Public Report**

# **Asset Management Report**

# Appendix - List of Major Rehabilitation and Replacement Activities FY 2021-2050

The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Controlled Unclassified Information (CUI) has been redacted from the public release of this report.

Bureau of Reclamation Appendix Asset Management Report

										Fundin	g Categories*			
			1	Transferred /	T	MR&R		Reclamation	Appropriated			Non-Federal Financir	ng	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	CENTRAL	ressec runic	WOLKS	Ditti Description of Work Meeded	Kuting	Costs	Sarety	Surety	reacran	Timmening	Water Osers	Turthers	March Total
Arizona	1	ARIZONA PROJECT	Ak-Chin Farms - Water Delivery Facilities	Transferred	AK-Chin Repair Link Pipeline and Install an Impressed Current System	A	\$ 20,237,390	\$ 13,407,390						\$ 13,407,390
		CENTRAL ARIZONA	BRADY PUMPING PLANT		Motor Exciter & Control Replacement at Brady, Picacho and									
Arizona	1	PROJECT CENTRAL	(8 units)	Transferred		С	\$ 773,000						\$ 31,000	\$ 31,000
Arizona	1	ARIZONA PROJECT	PICACHO PUMPING PLANT (6 units)	Transferred	Motor Exciter & Control Replacement at Brady, Picacho and Red Rock	С	\$ 773,000						\$ 31,000	\$ 31,000
Arizona	1	CENTRAL ARIZONA PROJECT	RED ROCK PUMPING PLANT (5 units)	Transferred	Elevator System Replacement Phase 2	В	\$ 1,080,000						\$ 552,000	\$ 552,000
Anzona	1	CENTRAL ARIZONA	RED ROCK PUMPING	Hansiened	Motor Exciter & Control Replacement at Brady, Picacho and	В	3 1,080,000						3 332,000	3 332,000
Arizona	1	PROJECT CRSP, GLEN	PLANT (5 units) Glen Canyon Dam and	Transferred	Red Rock	С	\$ 773,000						\$ 31,000	\$ 31,000
Arizona	1	CANYON UNIT	Reservoir	Reserved	Recoat Outlet Works and Hollow Jets	С	\$ 4,000,000				\$ 4,000,000			\$ 4,000,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Dam and Reservoir	Reserved	Resurface VC parking lot, East Gate and Tunnel Roads	D	\$ 3,000,000				\$ 3,000,000			\$ 3,000,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Dam and Reservoir	Reserved	Tunnel Inspection & Repair	D	\$ 2,104,850				\$ 2,000,000			\$ 2,000,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Dam and Reservoir	Reserved	Penstock Expansion Joint Refurbishment	D	\$ 1,600,000	1			\$ 1,600,000			\$ 1,600,000
THIOM	•	CRSP, GLEN	Glen Canyon Dam and	reserved	Refurbish Hydraulic Valve Operating Systems - Rebuild/Refurbish the hydraulic operating systems for the eight fixed wheel gates, four river outlet ring follower gates and four	2	1,000,000				1,000,000			1,000,000
Arizona	1	CANYON UNIT	Reservoir Glen Canyon Dam and	Reserved	hollow jet valves.	С	\$ 1,300,000				\$ 1,300,000			\$ 1,300,000
Arizona	1	CANYON UNIT	Reservoir	Reserved	Inspect & Rehab Penstock & River Outlet Filling System Valve	D	\$ 500,000				\$ 500,000			\$ 500,000
Arizona	1	CANYON UNIT	Glen Canyon Power Facility	Reserved	Generator Rebuild Units 2, 4, 7, 8	D	\$ 21,000,000				\$ 21,000,000			\$ 21,000,000
		CRSP, GLEN			Modernize the unit and plant level control systems in the Fontenelle, Blue Mesa, Crystal, Morrow Point, Flaming Gorge,	_								
Arizona	1	CANYON UNIT	Glen Canyon Power Facility	Reserved	and Glen Canyon powerplants.	В	\$ 5,416,306				\$ 3,200,000			\$ 3,200,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Power Facility	Reserved	Rehab Cranes & Controls	D	\$ 2,333,726				\$ 2,100,000			\$ 2,100,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Power Facility	Reserved	Replace Generator Protection Relay	С	\$ 2,000,000				\$ 2,000,000			\$ 2,000,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Power Facility	Reserved	Rebuild 3 Pole Breaker Assembly	В	\$ 1,600,000				\$ 1,600,000			\$ 1,600,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Power Facility	Reserved	VC AC Distribution System Modernization	D	\$ 1,600,000				\$ 1,600,000			\$ 1,600,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Power Facility	Reserved	Replace Powerplant Lighting Distribution Panels	D	\$ 1,500,000				\$ 1,500,000			\$ 1,500,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Power Facility	Reserved	Powerplant High Efficiency Lighting Replacement	D	\$ 400,000				\$ 400,000			\$ 400,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Power Facility	Reserved	Rehab Stop Logs for the downstream side of the dam.	В	s 350,000				\$ 350,000			\$ 350,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Power Facility	Reserved	Replace Digital Exciter Control	C	\$ 200,000				\$ 200,000			\$ 200,000
AHZOHA	•	CRSP, GLEN	unjoin to the facility	Reserved	Upgrade the station service battery and charger system and install a secondary 125 VDC system to trip effected unit upon		200,000				200,000			200,000
Arizona	1	CANYON UNIT	Glen Canyon Power Facility	Reserved	failure of the main system.	С	\$ 200,000				\$ 200,000			\$ 200,000
		CRSP, GLEN			Install automated protection system monitoring on a pair of generators, GSU transformer and 125VDC battery system at									
Arizona	1	CANYON UNIT	Glen Canyon Power Facility	Reserved	Glen Canyon.	С	\$ 150,000				\$ 150,000			\$ 150,000
Arizona	1	CRSP, GLEN CANYON UNIT	Glen Canyon Power Facility	Reserved	Upgrade SCADA Equipment	С	\$ 766,626				\$ 150,000			\$ 150,000
Arizona	1	SALT RIVER PROJECT	C C CRAGIN DAM (Concrete)	Transferred	Fiber Optic Cable Replacement	D	\$ 330,000						\$ 330,000	\$ 330,000
Arizona		SALT RIVER PROJECT	C C CRAGIN PUMPING PLANT STATION	Transferred	Current Transformer (CT) Addition	В	\$ 110,000						\$ 110,000	\$ 110,000
Arizona	1	SALT RIVER PROJECT	THEODORE ROOSEVELT DAM POWER PLANT	Transferred	Major Overhaul	С	\$ 750,000						\$ 750,000	\$ 750,000
Arizona	1	SALT RIVER PROJECT	THEODORE ROOSEVELT DAM POWER PLANT	Transferred	Replace existing exciter system	C	\$ 268,000						\$ 268,000	\$ 268,000
· HILOM		CENTRAL ARIZONA	BRAWLEY PUMPING		, , , , , , , , , , , , , , , , , , , ,		200,000						200,000	200,000
Arizona	2	PROJECT	PLANT (5 units)	Transferred	Electromechanical Relay Replacement Phase 2	C	\$ 1,707,000						\$ 1,337,000	\$ 1,337,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Controlled Unclassified Information = CUI

										Fundin	g Categories*			
	ı		1	Transferred /	T	MR&R		Reclamation	Appropriated			Non-Federal Financi	ng I	
State	Congressional District	Authorized Project	Asset Name	Reserved	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		CENTRAL						2						
	_	ARIZONA	BRAWLEY PUMPING			_								
Arizona	2	PROJECT CENTRAL	PLANT (5 units)	Transferred	Elevator System Replacement Phase 2	В	\$ 1,080,000						\$ 552,000	\$ 552,000 *
		ARIZONA	SANDARIO PUMPING											
Arizona	2	PROJECT	PLANT (6 units)	Transferred	Electromechanical Relay Replacement Phase 2	С	\$ 1,707,000						\$ 1,337,000	\$ 1,337,000 *
		CENTRAL	THE PERSON OF TH											
Arizona	2	ARIZONA PROJECT	TWIN PEAKS PUMPING PLANT (6 units)	Transferred	Electromechanical Relay Replacement Phase 2	C	\$ 1,707,000						\$ 1,337,000	\$ 1,337,000 *
Alizona		CENTRAL	FLANT (6 units)	Hallstelled	Electroniechanical Relay Replacement Fliase 2		3 1,707,000						3 1,337,000	\$ 1,337,000
		ARIZONA	BLACK MOUNTAIN											
Arizona	3	PROJECT	PUMPING PLANT (5 units)	Transferred	Electromechanical Relay Replacement Phase 2	C	\$ 1,707,000						\$ 1,337,000	\$ 1,337,000
		CENTRAL ARIZONA	SAN XAVIER PUMPING											
Arizona	3	PROJECT	PLANT (5 units)	Transferred	Electromechanical Relay Replacement Phase 2	C	\$ 1,707,000						\$ 1,337,000	\$ 1,337,000 *
Arizona		CENTRAL	TERT (5 units)	Transierred	Electionic intermediate in the E		3 1,707,000						3 1,337,000	3 1,357,000
		ARIZONA	SAN XAVIER PUMPING											
Arizona	3	PROJECT	PLANT (5 units)	Transferred	Elevator System Replacement Phase 2	В	\$ 990,400						\$ 552,000	\$ 552,000 *
		CENTRAL ARIZONA	SNYDER HILL PUMPING											
Arizona	3	PROJECT	PLANT (9 units)	Transferred	Electromechanical Relay Replacement Phase 2	C	\$ 1,707,000						\$ 1,337,000	\$ 1,337,000 *
			()	nerred	Rehabilitation, replacement, and/or relocation of groundwater		1,707,300		t		i	1	. 1,557,000	. 1,557,000
		DELIVERY OF			extraction wells in the 242 well field that feed the 242 lateral									
	_	WATER TO	DRAINAGE WELLS (21	D .	and the Yuma Mesa Conduit (includes half wells sites drilling				I		l			
Arizona	3	MEXICO	wells in 242 Lateral system)	Reserved	on the eastern section of the well field).	С	\$ 17,062,800	\$ 9,481,400						\$ 9,481,400
		CENTRAL ARIZONA	BOUSE HILLS PUMPING	1					1					
Arizona	4	PROJECT	PLANT (10 units)	Transferred	Motor Exciter & Control Unit Replacement at West Plants	C	\$ 3,759,000		1				\$ 1,771,000	\$ 1,771,000 *
		CENTRAL			•									
		ARIZONA	BOUSE HILLS PUMPING			_								
Arizona	4	PROJECT CENTRAL	PLANT (10 units)	Transferred	Elevator System Replacement Phase 2	В	\$ 1,080,000						\$ 552,000	\$ 552,000 *
		ARIZONA												
Arizona	4	PROJECT	CAP AQUEDUCT	Transferred	Backup Power System Replacement at Check, TO & MW Sites	D	\$ 10,676,000						\$ 4,000,000	\$ 4,000,000 *
		CENTRAL												
	4	ARIZONA	a. n arrenriam											
Arizona	4	PROJECT CENTRAL	CAP AQUEDUCT	Transferred	Flowmeter Replacements at Turnouts	D	\$ 2,450,000						\$ 1,943,000	\$ 1,943,000 *
		ARIZONA												
Arizona	4	PROJECT	CAP AQUEDUCT	Transferred	Coffer Dam Design & Fabrication	В	\$ 1,888,000						\$ 1,888,000	\$ 1,888,000 *
		CENTRAL												
		ARIZONA	a. n arrenriam			_								
Arizona	4	PROJECT CENTRAL	CAP AQUEDUCT	Transferred	Discharge Valves at West Plants	D	\$ 1,783,000						\$ 843,000	\$ 843,000 *
		ARIZONA												
Arizona	4	PROJECT	CAP AQUEDUCT	Transferred	Sump Pump Water Level Controls at Pumping Plants	D	\$ 2,010,000						\$ 553,000	\$ 553,000 *
		CENTRAL												
		ARIZONA PROJECT	HAVASU PUMPING PLANT-				\$ 8.159.000						\$ 5.126.000	\$ 5.126.000 *
Arizona	4	CENTRAL	Mark Wilmer (6 units)	Transferred	Transformer Replacement at McCullough	В	\$ 8,159,000		-				\$ 5,126,000	\$ 5,126,000 *
		ARIZONA	HAVASU PUMPING PLANT-											
Arizona	4	PROJECT	Mark Wilmer (6 units)	Transferred	Fire Protection System Upgrades at Mark Wilmer Pumping Plant	В	\$ 4,745,000						\$ 3,705,000	\$ 3,705,000 *
		CENTRAL												
Arizona	4	ARIZONA PROJECT	HAVASU PUMPING PLANT- Mark Wilmer (6 units)	Transferred	Elayatar Systam Panlagament Bl?	В	\$ 945,000		I		l		\$ 483,000	\$ 483,000
Апгопа	4	CENTRAL	iviair Wilmer (0 units)	1 ransierred	Elevator System Replacement Phase2	D	a 943,000		<del> </del>		1		a 465,000	\$ 465,000
		ARIZONA	HAVASU PUMPING PLANT-		M.Wilmer Circuit Breakers and Compressed Air System				1					
Arizona	4	PROJECT	Mark Wilmer (6 units)	Transferred	Replacement	C	\$ 6,435,000						\$ 24,000	\$ 24,000 *
	1	CENTRAL	HAVACH DID OBJO DE 1270	<u> </u>							i	]		Ι Π
Arizona	4	ARIZONA PROJECT	HAVASU PUMPING PLANT- Mark Wilmer (6 units)	Transferred	Motor Rewind, Unit 6 at Mark Wilmer Pumping Plant	B	\$ 5,327,000		I		l		s 20,000	\$ 20,000 *
ALIZONA	4	CENTRAL	willier (0 units)	riansierred	motor remin, out o at mark winner rumping riant	ū	9 3,327,000		t		<del>                                     </del>		y 20,000	φ 20,000 °
	1	ARIZONA	LITTLE HARQUAHALA	l					I		l			
Arizona	4	PROJECT	PUMPING PLANT (10 units)	Transferred	Motor Exciter & Control Unit Replacement at West Plants	С	\$ 3,759,000				ļ	]	\$ 1,771,000	\$ 1,771,000
		COLO RVR	DEED MELLO (V	1					1					
Arizona	4	FRON WORK & LEVEE SYS	DEEP WELLS (Yuma Mesa Wellfield)	Reserved	Replace groundwater management pumping wells. Two to three replacements per year on the Yuma Mesa.	С	s 20,000,000	\$ 18,000,000	1					\$ 18,000,000 *
ALIZUHA	-	COLO RVR	DRAINAGE WELLS and	reserveu	replacements per year on the 1 tima iviesa.		20,000,000	13,000,000	<b> </b>				1	10,000,000
	1	FRON WORK &	PUMPS (Yuma Valley	l	Replace Yuma Area Project groundwater wells. Two to three				I		l			
Arizona	4	LEVEE SYS	wellfield)	Reserved	well replacements per year in the Yuma Valley.	С	\$ 20,000,000	\$ 18,000,000	1					\$ 18,000,000 *
	1	COLO RVR FRON WORK &	DRAINAGE WELLS and PUMPS (Yuma Valley	l	Replace the entire Westinghouse enclosure or replace the backboard for the motor contactor at several of the YM Well				I		l			
Arizona	4	LEVEE SYS	PUMPS (Yuma Valley wellfield)	Reserved	backboard for the motor contactor at several of the YM Well Fields control buildings to comply with standards.	A	s 3.000	s 3.000	1					s 3.000 *
AHZOHa	T -	COLO RVR	iu)	Reserved	rotes conto suntings to compry with standards.	Α	5,000	5,000	<b>—</b>		<del> </del>			5,000
	1	FRON WORK &	Levee Sys - Miscl - Yuma	l	Reconstruction of a 0.83 mile section of Route 0423-1028:				I		l			
Arizona	4	LEVEE SYS	County (Rockwood Weir)	Reserved	Yuma - Imperial Levee Road from mile post 0.58 to 1.41.	С	\$ 207,500	\$ 207,500			ļ	]		\$ 207,500 *
		COLO RVR	MAIN OUT ET DRABI		Parland the MODE / DROC 1 # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1					
Arizona	4	FRON WORK & LEVEE SYS	MAIN OUTLET DRAIN Keep, part in 0050 and 0423	Reserved	Replace the MODE / DPOC-1 diversion structure in the South Gila Valley.	C	\$ 8,489,000	s 7.207.000	I		l			\$ 7,207,000
AHZONA	4	LEVEE 313	росср, рат иг 0000 ана 0423	RESCIVED	она чансу.	_	0,409,000	1,207,000	1			1	1	ψ /,2U/,UUU

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Funding	g Categories*			_	
			1	Tm c 1/	ı	MR&R		Reclamation	Appropriated			Non-Federal Financin	ıg		
	Congressional	Authorized		Transferred / Reserved		MK&K Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Onerating	Estimated 30-Year	.   '
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total	1
State	District	COLO RVR	risset i tunic	***************************************	Die Description of Work Accura	- Autong	Costs	Surety	Surety	reacran	· muncing	water osers	Turtuers		十
	į .	FRON WORK &	MAIN OUTLET DRAIN										1		
Arizona	4	LEVEE SYS	Keep, part in 0050 and 0423	Reserved	Maintenance recommendation repairs to the MOD/MODE.	C	\$ 3,124,000	\$ 1,685,000					1	\$ 1,685,00	00
		COLO RVR		1	Heavy rehabilitation on a 0.97 mile section of Route 0423-										T
	į .	FRON WORK &	MAIN OUTLET DRAIN		1038EZ: Yuma - Main Outlet Drain Maintenance Road from								1		
Arizona	4	LEVEE SYS	Keep, part in 0050 and 0423	Reserved	mile post 1.12 to 2.09.	C	\$ 155,200	\$ 155,200					<u> </u>	\$ 155,20	00 *
		COLO RVR											1		
		FRON WORK &	MAIN OUTLET DRAIN		Repair concrete section on canal right of a siphon outlet's								1		
Arizona	4	LEVEE SYS	Keep, part in 0050 and 0423	Reserved	concrete box .	D	\$ 10,000	\$ 10,000					<b></b>	\$ 10,00	)0 *
		COLO RVR			L								1		
	!	FRON WORK &	Project Roads and Bridges -		Road Repair and Repaving: McKinley Rd - Senator Wash Rd to								1		
Arizona	4	LEVEE SYS	Yuma County	Reserved	Imperial Dam.	D	\$ 840,000			\$ 840,000			<b>└──</b>	\$ 840,00	)0 *
		COLO RVR FRON WORK &	Project Roads and Bridges -										1		
Arizona	4	LEVEE SYS	Yuma County	Reserved	Remove Mule Wash fan at RM A-107.4.	D	s 275,000	\$ 260,000					1	\$ 260,00	00 *
Anzona	4	COLO RVR	I tilla County	Reserved	Heavy rehabilitation on a 0.53 mile section of Route 0423-	D	\$ 273,000	\$ 200,000	1			+		3 200,00	JU .
	1	FRON WORK &	Project Roads and Bridges -		3374AZ: Yuma - Imperial County S24 Laguna Division from								ĺ		- 1 '
Arizona	4	LEVEE SYS	Yuma County	Reserved	mile post 0.00 to 0.53.	С	\$ 237,500	\$ 237,500					1	\$ 237,50	00 *
, monu		COLO RVR	Tunia County	reserved	inite post 0.00 to 0.25.	Ü	257,500	257,500	1					257,50	~
		FRON WORK &	Project Roads and Bridges -										1		
Arizona	4	LEVEE SYS	Yuma County	Reserved	Remove Gould Wash fan at RM A-105.7	D	\$ 135,000	\$ 135,000	1				1	\$ 135,00	00 *
		COLO RVR		1			,,,,,,,							,	ヿ
	1 '	FRON WORK &	Project Roads and Bridges -						1			]	1		- 1
Arizona	4	LEVEE SYS	Yuma County	Reserved	Remove Gould Wash fan at RM A-105.9	D	\$ 130,000	\$ 130,000	<u> </u>					\$ 130,00	00 *
		COLO RVR											1		Т
		FRON WORK &	River Front /Brock Rsvr -										1		
Arizona	4	LEVEE SYS	Miscl	Reserved	Brock Reservoir inlet gate #1 and #2 gate frame replacement.	C	\$ 250,000	\$ 250,000					<u> </u>	\$ 250,00	30 *
	1 7	COLO RVR	<u> </u>						1				1		- 1 7
	1 '	FRON WORK &	YUMA MESA CANALS	1 _			_	_	1				1		'
Arizona	4	LEVEE SYS	AND CONDUITS	Transferred	Yuma Mesa Conduit Extension Project	D	\$ 12,198,000	\$ 292,100					<b></b>	\$ 292,10	00
		CRBSP (TITLE 1)	YAO - DESALTING PLANT		Reverse Osmosis Membrane Replacement (1/3 Capacity	_							1		. '
Arizona	4	YUMA	PROCESS, BLDG 1-C	Reserved	Operation)	С	\$ 3,024,000	\$ 3,024,000						\$ 3,024,00	)0 *
	!	CRBSP (TITLE 1) YUMA	YAO - DESALTING PLANT PROCESS, BLDG 1-C		WDDDI II I I I I I I I I I I I I I I I I								1		
Arizona	4			Reserved	YDP Plant Instrumentation Replacements and Repairs	C	\$ 850,000	\$ 850,000					<del></del>	\$ 850,00	)0 *
Arizona	4	CRBSP (TITLE 1) YUMA	YAO- PROJECT OFFICE HEADQUARTERS, BLDG 1	Reserved	YAO Administration Building Rehabilitation/Replacement	С	s 37,110,000	\$ 36,810,000					1	\$ 36,810,00	
Arizona	4	YUMA	HEADQUARTERS, BLDG I	Reserved	YAO Fire Protection System - Replace the fire alarm panels,	C	\$ 37,110,000	\$ 36,810,000	-			+		\$ 36,810,00	JU ~
					detection and notification devices in the warehouse and								1		
					maintenance buildings. Also included will be the replacement								1		
		CRRSP (TITLE 1)	YAO- PROJECT OFFICE		of the notification system and smoke detectors in the main								1		
Arizona	4	YUMA	HEADQUARTERS, BLDG 1	Reserved	building.	В	\$ 2,459,000	\$ 102,000					1	\$ 102,00	00
, monu			YAO- PROJECT OFFICE	reserved	Replace the YAO administration building fire suppression		2,127,000	0 102,000	1					102,00	~
Arizona	4	YUMA	HEADOUARTERS, BLDG 1	Reserved	system plumbing and sprinkler heads.	A	\$ 2,156,000	\$ 101,800					1	\$ 101.80	00 *
			,		Rehabilitate or Replace the A-22 Sludge Disposal Pipeline. The		_,,,,,,,,,								Ŧ
					pipe is a 22 mile long pipeline which moves lime sludge								1		
		CRBSP (TITLE 1)			generated at the Yuma Desalting Plant (YDP) to the permitted								1		
Arizona	4	YUMA	YUMA DESALTING PLANT	Reserved	disposal site.	C	\$ 20,581,000	\$ 20,581,000					1	\$ 20,581,00	00
		CRBSP (TITLE 1)		ĺ	Replace the aluminum bronze piping throughout desalting plant										
Arizona	4	YUMA	YUMA DESALTING PLANT	Reserved	facility	В	\$ 20,494,000	\$ 19,311,000					<u> </u>	\$ 19,311,00	00
													1		
	1 '	CRBSP (TITLE 1)		1 -	YDP Railroad Spur Rehabilitation (required for bulk chemical		_		1				1		'
Arizona	4	YUMA	YUMA DESALTING PLANT	Reserved	delivery to operate the desalting plant at 1/3 or greater capacity)	D	\$ 14,125,000	\$ 14,078,000				ļ	<b></b>	\$ 14,078,00	)0 *
	1 '	CDDCD (TITLE T							1				1		- [ '
	1 . !	CRBSP (TITLE 1)	VIIMA DECALEDIO DI COM	l	Construct permanent chlorine containment facility and			e e e e e e e e e e e e e e e e e e e	1				1	e 0.00	, I '
Arizona	4	YUMA	YUMA DESALTING PLANT	Reserved	scrubbing system.  Replace aluminum bronze high-pressure reverse osmosis (RO)	С	\$ 10,316,000	\$ 9,000,000	<del>                                     </del>			<del>                                     </del>	$\vdash$	\$ 9,000,00	JU
	1 '				pumps to include pump shafts, impellers and bowls. 1.5 pumps				1			]	1		- 1
	1 '	CRBSP (TITLE 1)			pumps to include pump snarts, impeliers and bowls. 1.5 pumps purchased to date. 1.5 additional pumps required to run at 1/3	]			1				1		- [ '
Arizona	4	YUMA	YUMA DESALTING PLANT	Reserved	capacity.	C	\$ 8,563,000	\$ 7,932,000	1				1	\$ 7,932,00	oo L '
ATTZOHA		CRBSP (TITLE 1)	TOWN DESIGNATION FEATURE	reserved	cupueny.		9 0,505,000	· 1,752,000	<del>                                     </del>			<del>                                     </del>		7,732,00	~
Arizona	4	YUMA	YUMA DESALTING PLANT	Reserved	Install reverse osmosis pressure vessels and fittings	D	\$ 4,974,000	\$ 4,900,000	1			]	1	\$ 4,900,00	00
	<del> </del>				p 100000 and mango		. 1,771,300	,,,,,,,,,,	† †			1		1,700,00	+
	1 '	CRBSP (TITLE 1)				]			1				1		- [ '
Arizona	4	YUMA	YUMA DESALTING PLANT	Reserved	Construct a permanent ammonia system.	C	\$ 3,860,000	\$ 3,842,000	1				1	\$ 3,842,00	00
															T
	1 '	CRBSP (TITLE 1)				]			1				1		- [ '
Arizona	4	YUMA	YUMA DESALTING PLANT	Reserved	Lime grit handling system addition.	C	\$ 657,400	\$ 650,400					<b></b>	\$ 650,40	00
	1 7	CRBSP (TITLE 1)											1	1.	- [ ]
Arizona	4	YUMA	YUMA DESALTING PLANT	Reserved	Solids Contact Reactor SCR 1 Recoat Maintenance	D	\$ 623,000	\$ 623,000				ļ	<b></b>	\$ 623,00	00
	1 7	DELIVERY OF				[			1				1		17
	1 '	WATER TO	L	1 _	Bypass Channel repairs along the U.S. and Mexican sections of			_	1				1		[ '
Arizona	4	MEXICO	BYPASS CHANNEL	Reserved	the canal.	С	\$ 1,848,000	\$ 804,000				ļ	⊢—	\$ 804,00	JU
	1 . !	CIL A DD O IFOT	GGMC Sta 0 to 409plus25 -	m	Const Doub Stabilization	I			1						L.'
Arizona	4	GILA PROJECT	Yuma County	Transferred	Canal Bank Stabilization	A	\$ 2,425,000		<del>                                     </del>			<del>                                     </del>	\$ 2,425,000	\$ 2,425,00	JU *
Arizona	1 4 1	GILA PROJECT	GGMC Sta 0 to 409plus25 - Yuma County	Transferred	GGMC - Overshoot No.1 at Station 169+80 - Repair/replace overshoot deck.	D	\$ 1,125,000		1			]	\$ 1,075,000	\$ 1,075,00	00
Апzona	4	GILA PROJECT	GGMC Sta 0 to 409plus25 -	ransterred	overshoot deck.  Gila Gravity Canal Road Improvements - Laguna Dam to Mittry	D	a 1,125,000		+			+	a 1,0/5,000	a 1,0/5,00	.70
				1	Boat Ramp	D	\$ 980,000			\$ 980,000		l J	1	\$ 980,00	1 '
Arizona	4	GILA PROJECT	Yuma County	Transferred											90 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

									-	Fundi	g Categories*	-		_
	ı	ı	1	Transferred /	T	MR&R	_	Reclamation	Appropriated			Non-Federal Financi	ng I	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs		Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	
Arizona	4	GILA PROJECT	GILA DESILTING BASIN DIVERSION WORKS	Transferred	Radial Gate Trunnion Repair. Imperial Dam -Gila Desilting Basin Diversion Works.	С	\$ 3,578,000						\$ 3,222,	900 \$ 3,222
Arizona	4	GILA PROJECT	GILA DESILTING BASIN DIVERSION WORKS	Transferred	Refurbish Gila headworks gate at Imperial Dam - Gila Desilting Basin Diversion Works.	D	\$ 3,245,400						\$ 2,975,	000 \$ 2,975
Arizona	4	GILA PROJECT	GILA DESILTING BASIN DIVERSION WORKS	Transferred	Rebuild one Gila diversion gate pair.	D	\$ 1,309,000						\$ 1,120,	000 \$ 1,120
Arizona	4	GILA PROJECT	GILA DESILTING BASIN DIVERSION WORKS	Transferred	Repair embeds on Gila diversion gate. Imperial Dam - Gila Desilting Basin Diversion Works.	D	\$ 750,000						\$ 600,	000 \$ 600
		CH A BROWEGE	GILA DESILTING BASIN	T 6 1	Repair concrete deterioration on the Gila Gravity Headworks deck (2010-2-B). Imperial Dam - Gila Desilting Basin	C	250,000						6 150	150
Arizona	4	GILA PROJECT	DIVERSION WORKS RELOCATION PROPERTY OF OTHERS/YUMA MESA	Transferred	Diversion Works.  Yuma Mesa Pumping Plant pump rebuilds. Pump Unit No. 3 -	C	\$ 350,000						\$ 150,	000 \$ 150
Arizona	4	GILA PROJECT	PMPNG PLNT WELL n DITCH LINES	Transferred	CY20. Pump Unit No. 4 - CY21. Pump Unit No. 5 - CY22. Replace groundwater management pumping wells. Two to three	A	\$ 850,000						\$ 850,	000 \$ 850
Arizona	4	GILA PROJECT	CA:2150 (So Gila well field)  WELL n DITCH LINES	Reserved	well replacements per year in the South Gila Valley. Replace remaining DPOC 3 canal concrete lining panels that are broken and restricting flow. Repair concrete at DPOC-3 crossing headwall upstream of terminus. DPOC 2 flow modification; repair, replace, and reroute. Design and construct replacement	С	\$ 20,000,000	\$ 18,000,000						\$ 18,000
Arizona	4	GILA PROJECT	CA:2150(So Gila well field) YUMA IRRIGATION	Reserved	South Gila concrete standboxes.  Demolishing the existing Yuma Irrigation District South Gila	D	\$ 6,449,000	\$ 6,425,000						\$ 6,425
Arizona	4	GILA PROJECT	DISTRICT- South Gila Headquarters	Transferred	Headquarters building and building a new headquarters building.	D	\$ 200,000						\$ 200,	000 \$ 200
Arizona	4	GILA PROJECT	YUMA MESA UNIT	Transferred	Yuma Mesa canal relining. Relining of canals in high seepage areas.	Е	\$ 250,000						\$ 250,	000 \$ 250
Arizona	4	PARKER-DAVIS PROJECT	Operations	Reserved	Unit D3 generator rewind.	В	\$ 4,500,000				\$ 2,700,000			\$ 2,700
Arizona	4	PARKER-DAVIS PROJECT	Operations	Reserved	Station Service Switchgear Replacement	В	\$ 1,200,000				\$ 1,200,000			\$ 1,200
Arizona	4	PARKER-DAVIS PROJECT	Operations	Reserved	Station Service Transformer Replacement	В	\$ 800,000				\$ 800,000			\$ 800
Arizona	4	PARKER-DAVIS PROJECT	Operations	Reserved	Unit Control PLC Replacement	С	\$ 700,000				\$ 700,000			\$ 700
Arizona	4	PARKER-DAVIS PROJECT	Operations	Reserved	Generator heat exchanger rehabilitation.	D	\$ 1,410,000				\$ 285,000			\$ 285
Arizona	4	PARKER-DAVIS PROJECT PARKER-DAVIS	(Bldgs. listed separately)	Reserved	Davis Dam Access Road and Visitor Parking	С	\$ 730,000				\$ 730,000			\$ 730
Arizona	4	PROJECT SALT RIVER	(Bldgs. listed separately) HORSE MESA DAM (Salt	Reserved	Evaporation Pond Liner Replacement	D	\$ 200,000				\$ 200,000			\$ 200
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Unit 3 Generator Rewind	Е	\$ 3,380,000						\$ 3,280,	000 \$ 3,280
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Spillgate Condition Assessment and Repair	В	\$ 1,997,000						\$ 1,777,	000 \$ 1,777
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Upper Carwash Bridge	В	\$ 1,500,000						\$ 1,500,	000 \$ 1,500
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Evapotranspiration Field Replacement	Е	\$ 1,410,000						\$ 1,410,	000 \$ 1,410
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Access Road Concrete Reinforcement	С	\$ 1,400,000						\$ 1,400,	000 \$ 1,400
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Turbine Shut-off Valve Replacement	D	\$ 8,500,000						\$ 1,300,	000 \$ 1,300
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Unit 3 Major Overhaul	С	\$ 1,200,000						\$ 1,200,	000 \$ 1,200
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Unit 4 Major Overhaul	С	\$ 1,035,000						\$ 1,035,	000 \$ 1,035
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Road Access Repair from 2019 Storm	В	\$ 965,000						\$ 965,	000 \$ 965
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Camp Water Distribution Repairs	D	\$ 650,000						\$ 650,	000 \$ 650
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Hilfiker and Talus Slope Drainage	D	\$ 500,000	1			ļ		\$ 500,	000 \$ 500
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	Station Services Disconnect Breaker	С	\$ 270,000	1					\$ 270,	000 \$ 270
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM (Salt	Transferred	U3-Major Wicket Seals and Seal Water System	С	\$ 200,000						\$ 200,	000 \$ 200
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) HORSE MESA DAM POWER	Transferred	U3 Major- Turbine Guide Bearing Replacement	С	\$ 247,000						\$ 165,	000 \$ 165
Arizona	4	PROJECT SALT RIVER	PLANT HORSE MESA DAM POWER	Transferred	Generator Exciter System Replacement	С	\$ 1,068,000						\$ 1,068,	000 \$ 1,068
Arizona	4	PROJECT SALT RIVER	PLANT MORMON FLAT DAM (Salt		Generator Air Cooler Replacement	С	\$ 150,000	1			ļ		\$ 150,	000 \$ 150
Arizona	4	PROJECT SALT RIVER	River - Concrete Thin Arch) MORMON FLAT DAM (Salt	Transferred	Access Road Patch Repair near Transformer	D	\$ 403,000	ļ					\$ 403,	000 \$ 403
Arizona	4	PROJECT	MORMON FLAT DAM (Salt River - Concrete Thin Arch)	Transferred	Intake Gate Hydraulic Cylinder Rebuild	C	\$ 136,000	1					\$ 136	000 S 136

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

136,000

136,000

4

SALT RIVER

River - Concrete Thin Arch) MORMON FLAT DAM

Intake Gate Hydraulic Cylinder Rebuild

erator Exciter System Replacement

										Fundir	ng Categories*			]
		1	ı	I	T		1	D. I. e	Appropriated	1		Non-Federal Financia	ng	1
State	Congressional District	Authorized	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total Costs	Reclamation Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	Project SALT RIVER	MORMON FLAT DAM	Works	Brief Description of Work Needed	Rating	Costs	Salety	Safety	r ederai	Financing	water Users	Partners	MR&R 10tai
Arizona	4	PROJECT	POWER PLANT	Transferred	480 V Distribution Panel Cabinet Replacement	С	\$ 300,000						\$ 300,000	\$ 300,000
Arizona	4	SALT RIVER PROJECT	STEWART MTN DAM POWER PLANT	Transferred	Replace existing exciter system		\$ 268,000						\$ 268,000	\$ 268,000
Arizona	4	SALT RIVER	STEWART MTN DAM	Transferred	Replace existing exciter system	C	\$ 208,000						\$ 208,000	\$ 200,000
Arizona	4	PROJECT	POWER PLANT	Transferred	Spillgate Engine and Gen Replacement	С	\$ 130,000						\$ 130,000	\$ 130,000
			YUMA LATERAL SYSTEM(YCWUA water		Cuming Lateral - Rehabilitate and refurbish 4.625 miles of									
Arizona	4	YUMA PROJECT		Transferred	unlined canal with either pipeline or concrete lined canal.	С	\$ 4,500,000						\$ 4,500,000	\$ 4,500,000
			YUMA LATERAL				,,,,,,,						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,
	4	VIDA DROJECT	SYSTEM(YCWUA water	T. C. 1	Thurman Lateral - Rehabilitate and refurbish 2.5 miles of	С	\$ 2,500,000						\$ 2,500,000	6 2 500 000
Arizona	4	YUMA PROJECT	YUMA LATERAL	Transferred	unlined canal with either pipeline or concrete lined canal	C	\$ 2,500,000	1					\$ 2,500,000	\$ 2,500,000
			SYSTEM(YCWUA water		Faulkner Lateral - Rehabilitate and refurbish 1.75 miles of									
Arizona	4	YUMA PROJECT	delivery sys) YUMA LATERAL	Transferred	unlined canal with either pipeline or concrete lined canal.	В	\$ 1,750,000						\$ 1,750,000	\$ 1,750,000
			SYSTEM(YCWUA water		Schutz Lateral - Rehabilitate and refurbish 1.75 miles of unlined									
Arizona	4	YUMA PROJECT		Transferred	canal with either pipeline or concrete lined canal.	C	\$ 1,750,000						\$ 1,750,000	\$ 1,750,000
			YUMA LATERAL		D. I. T. I. D. I. I. I. C. I. I. C.									
Arizona	4	YUMA PROJECT	SYSTEM(YCWUA water delivery sys)	Transferred	Bondesson Lateral - Rehabilitate and refurbish 1.5 miles of unlined canal.	С	\$ 1,500,000						\$ 1,500,000	\$ 1,500,000
			YUMA LATERAL			_	3,000,000						.,,	,,,,,,,,
			SYSTEM(YCWUA water		Daniel Lateral - Rehabilitate and refurbish1.25 miles of unlined									
Arizona	4	YUMA PROJECT	delivery sys) YUMA LATERAL	Transferred	canal with either pipeline or concrete lined canal.	В	\$ 1,250,000	-					\$ 1,250,000	\$ 1,250,000
			SYSTEM(YCWUA water		Behan Lateral - Rehabilitate and refurbish 1.0 mile of unlined									
Arizona	4	YUMA PROJECT		Transferred	canal with either pipeline or concrete lined canal.	В	\$ 1,000,000						\$ 1,000,000	\$ 1,000,000
			YUMA LATERAL SYSTEM(YCWUA water		Edwards Lateral - Rehabilitate and refurbish 1.0 mile of unlined									
Arizona	4	YUMA PROJECT		Transferred	canal with either pipeline or concrete lined canal.	С	\$ 1,000,000						\$ 1,000,000	\$ 1,000,000
			YUMA LATERAL											
Arizona	4	YUMA PROJECT	SYSTEM(YCWUA water delivery sys)	Transferred	Arnold Lateral - Rehabilitate and refurbish 0.875 miles of unlined canal with either pipeline or concrete lined canal.	В	\$ 895,000						\$ 895,000	\$ 895,000
THEORE		romitinoscor	YUMA LATERAL	Transferred	•		\$ 0,0,000						0,0,000	5 0,5000
			SYSTEM(YCWUA water		Gardenhire Lateral - Rehabilitate and refurbish 0.25 miles of									
Arizona	4	YUMA PROJECT	delivery sys) YUMA LATERAL	Transferred	unlined canal with either pipeline or concrete lined canal.	В	\$ 250,000	-					\$ 250,000	\$ 250,000
			SYSTEM(YCWUA water		Neatherlin Lateral - Rehabilitate and refurbish 0.25 miles of									
Arizona	4	YUMA PROJECT	delivery sys)	Transferred	unlined canal with either pipeline or concrete lined canal.	С	\$ 250,000						\$ 250,000	\$ 250,000
		CENTRAL ARIZONA	SALT-GILA PUMPING											
Arizona	6	PROJECT	PLANT (10 units)	Transferred	Motor Exciter & Control Unit Replacement at West Plants	С	\$ 3,759,000						\$ 1,771,000	\$ 1,771,000
			D - D - D - D - D - D - D - D - D											
Arizona	6	SALT RIVER PROJECT	BARTLETT DAM(Verde River-Concrete Multiple Arch)	Transferred	Penstock Intel Sealing Surface Repair and Bulkhead Redesign	С	\$ 900,000						\$ 900,000	\$ 900.000
Anzona			•	Transierred	r ensteek inter Bearing Burace repair and Buraceau redesign		3 700,000	İ					3 700,000	3 200,000
		SALT RIVER	BARTLETT DAM(Verde			_								
Arizona	6	PROJECT SALT RIVER	River-Concrete Multiple Arch) HORSESHOE DAM (Verde	Transferred	Diesel Generator Auto Power Transfer	С	\$ 165,000						\$ 165,000	\$ 165,000
Arizona	6	PROJECT	River - Earthfill)	Transferred	Road Culverts	С	\$ 1,700,000						\$ 1,700,000	\$ 1,700,000
		SALT RIVER	HORSESHOE DAM (Verde			_								
Arizona	6	PROJECT	River - Earthfill) YUMA MESA IDD	Transferred	Spillgate Trunnion Painting Upgrade water boards and delivery system. Develop electronic	D	\$ 325,000	-					\$ 325,000	\$ 325,000
Arizona	7	GILA PROJECT	EQUIPMENT	Transferred	water board and automate YMIDD gate systems.	С	\$ 1,000,000	<u> </u>	<u> </u>	<u> </u>		<u> </u>	\$ 1,000,000	\$ 1,000,000
		CENTRAL												
Arizona	· ·	ARIZONA PROJECT	HASSAYAMPA PUMPING PLANT (10 units)	Transferred	Motor Exciter & Control Unit Replacement at West Plants	· ·	\$ 3,759,000	I				ĺ	\$ 1,771,000	\$ 1,771,000
ruzona		CENTRAL		ranstrited	Exercise Control on Recipiacement at West Flams		3,737,000	<b>†</b>	1	1			u 1,//1,000	y 1,//1,000
	1	ARIZONA	HASSAYAMPA PUMPING	_		l .		I				ĺ	1.	_
Arizona	8	PROJECT CENTRAL	PLANT (10 units) NEW WADDELL PUMP	Transferred	Elevator System Replacement Phase 2	В	\$ 1,080,000	1	<del> </del>	1	1	<del>                                     </del>	\$ 552,000	\$ 552,000
		ARIZONA	GENERATING PLANT (8											
Arizona	8	PROJECT	units)	Transferred	Programmable Logic Controller (PLC) Replacements at Waddell	С	\$ 5,457,000						\$ 5,032,000	\$ 5,032,000
	1	CENTRAL ARIZONA	NEW WADDELL PUMP GENERATING PLANT (8	]		]		_		1		1	1	
Arizona	8	PROJECT	units)	Transferred	Electromechanical Relay Replacement Phase 2	С	\$ 1,707,000	I				ĺ	\$ 1,337,000	\$ 1,337,000
		CENTRAL	NEW WADDELL PUMP				,,		1				,,.	,,.
Arizono	8	ARIZONA PROJECT	GENERATING PLANT (8 units)	Transforms 3	Elazatar Szetam Panlagament Bhaca 2	В	\$ 1,080,000	1				ĺ	\$ 552,000	\$ 552,000
Arizona	8	PROJECT CVP,	umis)	Transferred	Elevator System Replacement Phase 2	В	\$ 1,080,000	<del> </del>	1	1		<del> </del>	a 552,000	a 552,000
		MISCELLANEOU	SHASTA POWER FACILITY		Replace unit 4 B phase transformer, and unit 4 C phase			1				ĺ		
California	1	S PROJECTS	7 units	Reserved	transformer.	A	\$ 4,550,000	ļ			\$ 4,550,000	ļ		\$ 4,550,000
California	1	SOLANO PROJECT	BERRYESSA RECREATION	Reserved	Rehabilitate, improve, and modernize five high-use day use area restrooms; reroof all 13 day use area restrooms.	F	\$ 2,000,000	I		\$ 2,000,000		ĺ	1	\$ 2,000,000
Camornia	1	SOLANO		Keserven	•		,,,,,,	<b>†</b>	1	\$ 4,000,000			1	, , , , , , , , , , , , , , , , , , , ,
California	1	PROJECT	BERRYESSA RECREATION	Reserved	Complete pavement rehabilitation work not completed in 2018.	С	\$ 2,334,000	\$ 560,000				ļ	ļ	\$ 560,000
California	,	SOLANO PROJECT	BERRYESSA RECREATION	DoggJ	Expand parking lots to accommodate number of picnic shelters	E	s 500.000	I		\$ 500,000		ĺ	]	\$ 500.000
California	1	PROJECT	DERKYESSA RECREATION	Reserved	and group sites.	E	\$ 500,000	1	1	\$ 500,000	1	1		s 50

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

									A	Fundin	g Categories*	Non-Federal Financia		ĺ
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total Costs	Reclamation Excluding Dam Safety	Appropriated  Reclamation Dam  Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
California	1	SOLANO PROJECT	LAKE BERRYESSA ADMIN BLDG	Reserved	Replace aging Entrance Station Building with larger building to meet present-day needs.	E	\$ 1,600,000	Salety	Salety	\$ 1,600,000	Financing	water Osers	Tartilers	\$ 1,600,000
California	1	SOLANO PROJECT	LAKE BERRYESSA ADMIN BLDG	Reserved	Rehabilitate all pavement in Admin complex	С	\$ 500,000			\$ 500,000				\$ 500,000
California	1	SOLANO PROJECT	LAKE BERRYESSA ADMIN BLDG	Reserved	Improve building layout, envelope, interpretive displays and area, office space.	С	\$ 300,000			\$ 300,000				\$ 300,000
California	1	SOLANO PROJECT	LAKE BERRYESSA ADMIN BLDG	Reserved	Replace Windows	E	\$ 150,000			\$ 150,000				\$ 150,000
California	1	SOLANO PROJECT	LAKE BERRYESSA BOAT STORAGE	Reserved	Install 100KW Solar System on new covered boat storage structure	D	\$ 500,000	\$ 500,000						\$ 500,000
California	1	SOLANO PROJECT	LAKE BERRYESSA DORM	Reserved	Improve energy efficiency of building envelope	D	\$ 150,000			\$ 150,000				\$ 150,000
California	1	SOLANO PROJECT	LAKE BERRYESSA DORM	Reserved	Replace 3 HVAC Systems	С	\$ 100,000			\$ 100,000				\$ 100,000
California	1	SOLANO PROJECT SOLANO	LAKE BERRYESSA EQUIP BLDG LAKE BERRYESSA EQUIP	Reserved	Replace aging Fuel Tanks System	В	\$ 200,000			\$ 200,000				\$ 200,000
California	1	PROJECT SOLANO	BLDG LAKE BERRYESSA EQUIP	Reserved	Replace eleven (11) old overhead doors	D	\$ 150,000			\$ 150,000				\$ 150,000
California	1	PROJECT SOLANO	BLDG LAKE BERRYESSA EQUIP	Reserved	Replace aging fork lift	С	\$ 150,000			\$ 150,000				\$ 150,000
California	1	PROJECT SOLANO	BLDG LAKE BERRYESSA MULTI	Reserved	Replace aging Vehicle Wash System	D	\$ 150,000			\$ 150,000				\$ 150,000
California	1	PROJECT SOLANO	PURPOSE LAKE BERRYESSA	Reserved	Repair road bed, replace and add gravel, regrade.	В	\$ 1,000,000	\$ 1,000,000						\$ 1,000,000
California	1	PROJECT	VISITORS CENTER	Reserved	Install three (3) new vault restrooms	D	\$ 300,000			\$ 300,000				\$ 300,000
California	1	SOLANO PROJECT	LAKE BERRYESSA WATER TREATMENT BLDG	Reserved	Replace most of aging pipes, valves, tanks, pumps; rehabilitate sewage ponds.	С	\$ 3,000,000			\$ 3,000,000				\$ 3,000,000
California	1	SOLANO PROJECT	LAKE BERRYESSA WATER TREATMENT BLDG	Reserved	Replace water delivery system.	С	\$ 2,000,000			\$ 2,000,000				\$ 2,000,000
California	1	SOLANO PROJECT	LAKE BERRYESSA WATER TREATMENT BLDG	Reserved	Replace water intake dock and equipment	С	\$ 150,000			\$ 150,000				\$ 150,000
California	2	CVP, MISCELLANEOU S PROJECTS	KESWICK DAM	Reserved	Overhaul and recoat the 9 penstock fixed wheel gates.	С	\$ 10,400,000	\$ 10,400,000						\$ 10,400,000
California	2	CVP, MISCELLANEOU S PROJECTS	KESWICK DAM	Reserved	Keswick Dam spillway regulating gates rehabilitation	В	\$ 9,550,000	\$ 9,550,000						\$ 9,550,000
California	2	CVP, MISCELLANEOU S PROJECTS	KESWICK DAM	Reserved	Re-furbish gantry crane.	С	\$ 2,200,000				\$ 2,200,000			\$ 2,200,000
California	2	CVP, MISCELLANEOU S PROJECTS	KESWICK DAM	Reserved	Repair spalled concrete on main spillway.	С	\$ 750,000	\$ 750,000						\$ 750,000
California	2	CVP, MISCELLANEOU S PROJECTS	KESWICK DAM	Reserved	Repave the access road to the power plant and the KOB parking lot.	E	\$ 565,000	\$ 565,000						\$ 565,000
California	2	CVP, MISCELLANEOU S PROJECTS	KESWICK DAM	Reserved	Repair cracks and spalls on the spillway chute.	E	\$ 400,000	\$ 400,000						\$ 400,000
California	2	CVP, MISCELLANEOU S PROJECTS	KESWICK DAM	Reserved	Develop a dive contract to inspect and perform the necessary repairs to the Keswick Dam Stilling Basin.	E	\$ 250,000	\$ 250,000						\$ 250,000
California	2	CVP, MISCELLANEOU S PROJECTS	KESWICK DAM	Reserved	Investigate and repair electrical ARC reported in Spillway Gate House.	С	\$ 2,800	\$ 2,800						\$ 2,800
California	2	CVP, MISCELLANEOU S PROJECTS	KESWICK DAM	Reserved	Sump pump run hour counter not working.	С	\$ 280	\$ 280						\$ 280
		CVP, MISCELLANEOU			Replace fire alarm system in accordance with current Fire and									
California	2	S PROJECTS CVP, MISCELLANEOU	KESWICK OFFICE KESWICK POWER	Reserved	Life Safety requirements.	В	\$ 360,000	\$ 310,000						\$ 310,000
California	2	S PROJECTS CVP,	FACILITY 3 units	Reserved	Generator rewinds units 1-3.	С	\$ 27,000,000				\$ 27,000,000			\$ 27,000,000
California	2	S PROJECTS CVP,	KESWICK POWER FACILITY 3 units	Reserved	Replace main unit transformers.	A	\$ 6,750,000				\$ 6,750,000			\$ 6,750,000
California	2	MISCELLANEOU S PROJECTS	KESWICK POWER FACILITY 3 units	Reserved	Replace vacuum circuit breakers, units 1, 2, and 3.	С	\$ 1,650,000				\$ 1,650,000			\$ 1,650,000
California	2		KESWICK POWER FACILITY 3 units	Reserved	Upgrade the existing Fire Alarm Systems.	A	\$ 1,150,000	\$ 900,000						\$ 900,000

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Bureau of Reclamation

										Fundir	g Categories*	Non-Federal Financia		
				Transferred /		MR&R		Reclamation	Appropriated			Non-rederal Financi	l .	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		CVP, MISCELLANEOU	KESWICK POWER											
California	2	S PROJECTS	FACILITY 3 units	Reserved	Replace existing analog governors.	В	\$ 746,250				\$ 746,250			\$ 746,250 *
		CVP, MISCELLANEOU	KESWICK POWER											
California	2	S PROJECTS	FACILITY 3 units	Reserved	Unit Air blast Circuit Breaker Replacements	С	\$ 600,000				\$ 600,000			\$ 600,000 *
		CVP,			Crane needs modernization: Ladder access to cab, uses guard rail as part of ladder Only 28" of walkway access by live									
		MISCELLANEOU	KESWICK POWER FACILITY 3 units		buswork. There is guarding crane controls do not auto return to									
California	2	S PROJECTS CVP,	FACILITY 3 units	Reserved	neutral	D	\$ 500,000	\$ 500,000						\$ 500,000 *
		MISCELLANEOU	KESWICK POWER											
California	2	S PROJECTS CVP,	FACILITY 3 units	Reserved	Install vibration monitoring on all units.	C	\$ 60,000				\$ 60,000			\$ 60,000 *
C-lifi-	2	MISCELLANEOU S PROJECTS	KESWICK POWER	Danamad	Install transfer switch to tie units 2 and 3 to station service breaker 214	E	£ 50,000				\$ 50,000			£ 50,000 *
California		CVP,	FACILITY 3 units	Reserved	breaker 214	E	\$ 50,000				\$ 50,000			\$ 50,000 *
California	2	MISCELLANEOU S PROJECTS	KESWICK POWER FACILITY 3 units	Reserved	Replace machine shop roof.	С	\$ 50,000				\$ 50,000			\$ 50,000 *
Camornia	2	CVP,		Reserved		C	\$ 30,000				\$ 30,000			\$ 50,000
California	2	MISCELLANEOU S PROJECTS	KESWICK POWER FACILITY 3 units	Reserved	US board bus #2 480V circuit breaker maintenance - elect - triennial	E	\$ 5,600				\$ 5,600			\$ 5,600 *
Camornia	2	CVP,		Reserved	trienmai	- 2	\$ 3,600				\$ 3,000			\$ 3,000
California	2	MISCELLANEOU S PROJECTS	KESWICK POWER FACILITY 3 units	Reserved	Remove 3 intake gates for technical inspection.	D	s 5,000	\$ 5,000						\$ 5,000 *
Camornia		CVP,		Reserved	Kemove 3 make gates for technical hispection.	Б	3 3,000	3 3,000						3 3,000
California	2	MISCELLANEOU S PROJECTS	KESWICK POWER FACILITY 3 units	Reserved	KE U3 KC3A power potential insulation resistance 4 year.	E	\$ 2,689				\$ 2,689			\$ 2,689 *
Camornia	2	CVP,	FACILITY 3 units	Reserved	KE 03 KC3A power potential insulation resistance 4 year.	- 2	\$ 2,089				\$ 2,089			\$ 2,089
C IIC :	2	MISCELLANEOU S PROJECTS	KESWICK POWER FACILITY 3 units	D 1	LOD :	E	\$ 1,300				\$ 1,300			\$ 1,300 *
California	2	CVP,		Reserved	ACB air compressors not alternating operation cycles.	Е	\$ 1,300				\$ 1,300			\$ 1,300
California	2	MISCELLANEOU S PROJECTS	KESWICK POWER FACILITY 3 units	D 1		E	s 895				\$ 895			\$ 895 *
California	2	CVP,	FACILITY 3 units	Reserved	Station service transformer relays inspection - biennial - C&I	Е	\$ 895				\$ 895			\$ 895 *
	2	MISCELLANEOU	KESWICK POWER FACILITY 3 units											
California	2	S PROJECTS CVP,	FACILITY 3 units	Reserved	Replace broken hour meter.	С	\$ 250				\$ 250			\$ 250 *
	_	MISCELLANEOU S PROJECTS	KESWICK POWER FACILITY 3 units		L	F								s 130 *
California	2	CVP,	FACILITY 3 units	Reserved	Troubleshoot and remove pressure switch if not in service.	E	\$ 130				\$ 130			\$ 130 *
		MISCELLANEOU	OHLOTA DAM		D 1 : (1 #2 51	C								
California	2	S PROJECTS CVP,	SHASTA DAM	Reserved	Replace intake #3 fish screen.	C	\$ 10,000,000	\$ 10,000,000						\$ 10,000,000 *
		MISCELLANEOU	ov											
California	2	S PROJECTS CVP,	SHASTA DAM	Reserved	Refurbish elevation 750 tube valves.	D	\$ 8,000,000	\$ 8,000,000						\$ 8,000,000 *
		MISCELLANEOU	ov											
California	2	S PROJECTS	SHASTA DAM	Reserved	Replace 10" Domestic Water Supply Line.  Remove all of the rust nodules, abrasive blast, quantify the	A	\$ 4,850,000	\$ 4,850,000						\$ 4,850,000 *
					number and depth of the corrosion pitting, weld-repair if									
		CVP,			necessary, and re-coat all spillway drum gate bottom skin plates (vertical plate when gate is open), downstream skin plates									
C IIC :	2	MISCELLANEOU S PROJECTS	OHLOTA DAM	D 1	(curved plate in the drum gate chamber) and exterior top	D.	\$ 4,330,000	6 4 220 000						\$ 4,330,000 *
California	2	CVP,	SHASTA DAM	Reserved	surface.	В	\$ 4,330,000	\$ 4,330,000						\$ 4,330,000 *
C IIC :	2	MISCELLANEOU	OHLOTA DAM	D 1	Install a fish screen at Intake 2 and repair or replace the existing,	D.	6 4 000 000	6 4000,000						4 000 000
California	2	CVP,	SHASTA DAM	Reserved	malfunctioning flap valve.	В	\$ 4,000,000	\$ 4,000,000						\$ 4,000,000 *
		MISCELLANEOU S PROJECTS	OHLOTA DAM											
California	2	CVP,	SHASTA DAM	Reserved	Repair spalled concrete on main spillway.	В	\$ 3,487,000	\$ 3,487,000						\$ 3,487,000
California	2	MISCELLANEOU S PROJECTS	SHASTA DAM	D. 1	Repair spillway concrete and remove debris.	E	\$ 2,470,000	\$ 2,470,000						\$ 2,470,000 *
California	2	CVP,	DUARIA DAM	Reserved	repair spiliway concrete and remove debris.	E	\$ 2,470,000	\$ 2,470,000			<b> </b>			\$ 2,470,000 *
California		MISCELLANEOU S PROJECTS	CHACTA DAM	Reserved			\$ 2,000,000	\$ 2,000,000						\$ 2,000,000 *
California	2	CVP,	SHASTA DAM	Reserved	Replace ozone generators.	A	\$ 2,000,000	\$ 2,000,000			<del> </del>			\$ 2,000,000 *
o ire	_	MISCELLANEOU S PROJECTS	CHACTA DAN	ъ .	Refurbish #2 850' outlet valve; replace seals, and all rusted and									
California	2	CVP,	SHASTA DAM	Reserved	pitted wearable parts.	D	\$ 1,400,000	\$ 1,400,000			<del>                                     </del>			\$ 1,400,000 *
o us	2	MISCELLANEOU	CHACTA DAM	ъ .	DILL WOODEN CO. J. W. J.			6 1 400 000						
California	2	S PROJECTS CVP,	SHASTA DAM	Reserved	Rehab #6 850' River Outlet Valve.	D	\$ 1,400,000	\$ 1,400,000			<del> </del>			\$ 1,400,000 *
o ire	_	MISCELLANEOU	OHLOTA DANG	ъ .	Dild ode I way i a com									
California	2	S PROJECTS	SHASTA DAM	Reserved	Rehab the Outlet works #4 Valve at elevation 850'.	D	\$ 1,400,000	\$ 1,400,000	1	l	<u> </u>	<u> </u>	l	\$ 1,400,000 *

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										Fundi	g Categories*			]
		1		I.m. a. 1/	T	Manan		D 1 "	Appropriated			Non-Federal Financia	ng	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
					For the level 850 river out let works conduits clean and repair						Ü			
		ov m			failed coatings for the full length of conduit downstream of all									
		CVP, MISCELLANEOU	r		jet flow gates, abrasive-blast and recoat a 30-inch-wide arc length which straddles the conduit invert level over the full									
California	2	S PROJECTS	SHASTA DAM	Reserved	downstream length.	Е	\$ 1,000,000	\$ 1,000,000						\$ 1,000,000
							-,,,,,,,,	,,						,,
		CVP,												
California	2	MISCELLANEOU S PROJECTS	SHASTA DAM	Reserved	Shasta Dam Transfer Switch and cable replacement	A	\$ 1,500,000				\$ 750,000			\$ 750,000
Camornia		CVP,	SHASTA DAM	Reserved	Shasta Dain Transfer Switch and Cable replacement	A	3 1,300,000				3 /30,000			3 /30,000
		MISCELLANEOU	r		Recoat support Rod couplers, and install cathodic protection on									
California	2	S PROJECTS	SHASTA DAM	Reserved	the temperature control device.	C	\$ 100,000	\$ 100,000						\$ 100,000
		CVP, MISCELLANEOU	r		Repair the trip/guide mechanisms on the lower corners of the river outlet works trash rack bonnets and on the lower corners of									
California	2	S PROJECTS	SHASTA DAM	Reserved	the river outlet works coaster gate.	D	\$ 100,000	\$ 100,000						\$ 100,000
		CVP,			·									
0.110		MISCELLANEOU												
California	2	S PROJECTS CVP,	SHASTA DAM	Reserved	Connect water back up to top of dam.	С	\$ 30,000	\$ 30,000	1					\$ 30,000
		MISCELLANEOU	r				ĺ	I				ĺ	I	
California	2	S PROJECTS	SHASTA DAM	Reserved	Replace 12" cla-val with 12" gate valve.	C	\$ 25,000	\$ 25,000						\$ 25,000
					Install a telephone or another means communications to be									
		CVP,			able to communicate to the senior control center from the East and West drum gate platforms where the drum gate automatic		ĺ	I				ĺ	I	
		MISCELLANEOU	r		flow chambers are located, in case of an emergency of the									
California	2	S PROJECTS	SHASTA DAM	Reserved	person is locked out.	D	\$ 10,400	\$ 10,400						\$ 10,400
		ov in			Determine the load capacity of the Elevator penthouse metal									
		CVP, MISCELLANEOU	r		ladder leading up to the roof and label. If the load capacity cannot be determined, remove the ladder and dispose of									
California	2	S PROJECTS	SHASTA DAM	Reserved	properly.	E	\$ 5,000	\$ 5,000						\$ 5,000
		CVP,			,		* *,***	,						
		MISCELLANEOU												
California	2	S PROJECTS CVP,	SHASTA DAM	Reserved	Replace 750 elev. outlet oil pump #1 motor.	С	\$ 3,500	\$ 3,500				-		\$ 3,500
		MISCELLANEOU	r											
California	2	S PROJECTS	SHASTA DAM	Reserved	Replace LHDL Panel.	E	\$ 3,200	\$ 3,200						\$ 3,200
		CVP,												
California	2	MISCELLANEOU S PROJECTS	SHASTA DAM	Reserved	Replace outlet gate #2 close sensor.	С	\$ 3,200	\$ 3,200						\$ 3,200
Camornia	2	CVP,	SHASTA DAM	Reserved	Replace outlet gate #2 close sensor.	C	\$ 3,200	\$ 3,200						\$ 3,200
		MISCELLANEOU	r											
California	2	S PROJECTS	SHASTA DAM	Reserved	SH EL 750 hydraulic beam hoist inspection every 5 years.	E	\$ 300	\$ 300						\$ 300
		CVP, MISCELLANEOU	r		SH EL 850 hydraulic beam hoist inspection pent annual (5									
California	2	S PROJECTS	SHASTA DAM	Reserved	vears).	E	\$ 300	\$ 300						\$ 300
		CVP,			,									
			SHASTA DAM VISITORS											
California	2	S PROJECTS	CENTER	Reserved	Repave Shasta Area Office Parking Lot.	D	\$ 960,000	\$ 960,000						\$ 960,000
		CVP, MISCELLANEOU	SHASTA DAM VISITORS		Evaluate and procure design engineering to replace the HVAC									
California	2	S PROJECTS	CENTER	Reserved	units and controls for the Shasta Center and auditorium.	В	\$ 550,000	\$ 100,000						\$ 100,000
		CVP,												
California	2	MISCELLANEOU S PROJECTS	SHASTA DAM VISITORS CENTER	D '	Road repairs in the UVH parking lot.	С	\$ 5,000	\$ 5,000				1	1	\$ 5,000
California	2	S PROJECTS CVP,	CENTER	Reserved	Road repairs in the UVH parking lot.  Replace 6 transformers; Unit 1 B phase transformer, unit 1 C	C	\$ 5,000	\$ 5,000	1		-	<b>+</b>	<del> </del>	a 5,000
			SHASTA POWER FACILITY		phase transformer, unit 2 B phase transformer, unit 2 C phase	1	1	1				1	1	
California	2	S PROJECTS	7 units	Reserved	transformer, Unit 3 B phase transformer, and unit 3 C phase.	A	\$ 13,500,000				\$ 13,500,000			\$ 13,500,000
		CVP,	CHACTA BOUTE F. OF											
California	2	MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Unit 3 generator rewind.	C	\$ 9,610,000	1			\$ 9,610,000	1	1	\$ 9,610,000
Сантоппіа		CVP,	/ units	Reserved	One 5 generator rewind.	-	9,010,000	t	<del> </del>		9,010,000	<del> </del>	t	9,010,000
		MISCELLANEOU	SHASTA POWER FACILITY			I	I	I				I	I	
California	2	S PROJECTS	7 units	Reserved	Unit 4 generator rewind.	C	\$ 9,610,000	<b>.</b>			\$ 9,610,000	<b></b>	<b>.</b>	\$ 9,610,000
		CVP, MISCELLANEOU	SHASTA POWER FACILITY				ĺ	I				ĺ	I	
California	2	S PROJECTS	7 units	Reserved	Unit 5 generator rewind.	С	\$ 9,610,000				\$ 9,610,000			\$ 9,610,000
	-	CVP,				<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	İ	1		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	İ	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		MISCELLANEOU	SHASTA POWER FACILITY			I	L	I			1.	I	I	
California	2	S PROJECTS	7 units	Reserved	Replace A phase main unit transformers on units 1, 3, and 5.	A	\$ 6,850,000				\$ 6,850,000			\$ 6,850,000
		CVP, MISCELLANEOU	SHASTA POWER FACILITY			I	I	I				I	I	
California	2	S PROJECTS	7 units	Reserved	Replace unit 4 a phase main unit transformer.	A	\$ 2,275,000	1			\$ 2,275,000	1	1	\$ 2,275,000
		CVP,					, ,							, ,
0.110			SHASTA POWER FACILITY			Ι.		I				I	I	
California	2	S PROJECTS CVP,	7 units	Reserved	Replace station service transformer K3S.	A	\$ 1,725,000	<del>                                     </del>	ļ		\$ 1,725,000	<del>                                     </del>	<del>                                     </del>	\$ 1,725,000
			SHASTA POWER FACILITY		Refurbish 4 jet pumps, 8 duplex strainers and replace 2 duplex	1	1	1				1	1	
California	2	S PROJECTS	7 units	Reserved	strainers.	A	\$ 1,500,000	I			\$ 1,500,000	I	I	\$ 1,500,000

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										Fundi	ng Categories*			
			_	Transferred /	T	MR&R	1	Reclamation	Appropriated			Non-Federal Financia	ng	
	Congressional	Authorized		Reserved		Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		CVP,	SHASTA POWER FACILITY											
California	2	S PROJECTS	7 units	Reserved	Replace excitation station service generator 2.	A	\$ 1,350,000				\$ 1,350,000			\$ 1,350,000
		CVP,					,,,,,,,				, , , , , , , , , , , , , , , , , , , ,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
o re	2	MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	D 1	Books and 2 and that is a maken	A	6 1250,000				6 1250,000			6 1 250 000
California	2	CVP,	/ units	Reserved	Replace unit 2 excitation system.	A	\$ 1,250,000				\$ 1,250,000			\$ 1,250,000
		MISCELLANEOU	SHASTA POWER FACILITY											
California	2	S PROJECTS	7 units	Reserved	Replace station service generator unit 1 excitation system.	A	\$ 1,250,000				\$ 1,200,000			\$ 1,200,000
		CVP, MISCELLANEOU	SHASTA POWER FACILITY											
California	2	S PROJECTS	7 units	Reserved	Replace unit 1 excitation system.	A	\$ 1,250,000				\$ 1,200,000			\$ 1,200,000
		CVP,	OVER THE POWER THREE											
California	2	MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Replace vacuum circuit breakers on station service generator 2.	C	\$ 1,150,000				\$ 1,150,000			\$ 1,150,000
Camorina	-	CVP,	,	Reserved	replace vacuum eneam ereamers on station service generator 2.		3 1,150,000				3 1,130,000			3 1,150,000
	_		SHASTA POWER FACILITY			_								
California	2	S PROJECTS CVP,	7 units	Reserved	Design and build a cellular tower.	С	\$ 1,100,000	\$ 1,100,000						\$ 1,100,000
	1	MISCELLANEOU	SHASTA POWER FACILITY			1						1		1
California	2	S PROJECTS	7 units	Reserved	Install vibration monitoring on all units.	С	\$ 750,000				\$ 750,000			\$ 750,000
	1	CVP, MISCELLANEOU	SHASTA POWER FACILITY			1						1		1
California	2	S PROJECTS	7 units	Reserved	Coaster gate seals replacement and equalization system rehab.	A	\$ 500,000	\$ 500,000						\$ 500,000
		CVP,	av. am. pow											
California	,	MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Replace governor oil pumps, motors, unloading valves, and control systems for all five main turbine units.	A	\$ 1,100,000				\$ 400,000			\$ 400,000
Camornia	2	CVP.	/ units	Reserved	control systems for all five main turbine units.	A	3 1,100,000				\$ 400,000			\$ 400,000
			SHASTA POWER FACILITY		Remove the pipe insulation that is in disrepair and place on a									
California	2	S PROJECTS CVP.	7 units	Reserved	preventative maintenance schedule.	В	\$ 250,000				\$ 250,000			\$ 250,000
			SHASTA POWER FACILITY											
California	2	S PROJECTS	7 units	Reserved	Re-Babbitt bearing and machine to correct tolerances.	E	\$ 200,000	\$ 200,000						\$ 200,000
		CVP,	OVER THE POWER THE OWNER.											
California	2	S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Replace quick disconnects on equalization system with hard piping.	В	\$ 160,000	\$ 160,000						\$ 160,000
Cumoma		CVP,		reserved	Replace the 480v distribution panel "PDDR" in the dam tower,		100,000	100,000						J 100,000
	_		SHASTA POWER FACILITY		elevation block 46 with digital trip breakers, and add a main	_								
California	2	S PROJECTS CVP.	7 units	Reserved	breaker between the panel and the transformer.	D	\$ 100,000				\$ 100,000			\$ 100,000
			SHASTA POWER FACILITY											
California	2	S PROJECTS	7 units	Reserved	Replace seals on unit 3 draft tube stop logs.	Е	\$ 62,000	\$ 62,000						\$ 62,000
		CVP,	SHASTA POWER FACILITY											
California	2	S PROJECTS	7 units	Reserved	Replace seals on unit 4 draft tube stop logs.	Е	\$ 62,000	\$ 62,000						\$ 62,000
		CVP,												
California	2	MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Replace seals on unit 5 draft tube stop logs	E	\$ 62,000	\$ 62,000						s 62-000
Camomia	2	CVP,	/ units	Reserved	Replace seals on unit 3 draft tube stop logs	E	3 62,000	\$ 62,000						\$ 62,000
		MISCELLANEOU	SHASTA POWER FACILITY											
California	2	S PROJECTS	7 units	Reserved	Repair leak on main cylinder piping located under grating.	A	\$ 50,000	\$ 50,000						\$ 50,000
		CVP, MISCELLANEOU	SHASTA POWER FACILITY									ĺ		
California	2	S PROJECTS	7 units	Reserved	Replace machine shop roof.	С	\$ 50,000				\$ 50,000			\$ 50,000
		CVP,	CHACTA DOWED FACTORY											
California	2	S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Isolate and repair grounded wires.	D	\$ 40,000				\$ 40,000	ĺ		\$ 40,000
		CVP,					,000		1		,		l	,.00
C I'C .			SHASTA POWER FACILITY 7 units	, ,	10.1	D					6 20.000	ĺ		20.000
California	2	S PROJECTS CVP.	/ units	Reserved	Isolate and repair ground fault.	ע	\$ 20,000		1	1	\$ 20,000	1	1	\$ 20,000
	1	MISCELLANEOU	SHASTA POWER FACILITY			1						ĺ		1
California	2	S PROJECTS	7 units	Reserved	Replace UGB tub gaskets	С	\$ 20,000	\$ 20,000						\$ 20,000
	1	CVP, MISCELLANEOU	SHASTA POWER FACILITY			1						ĺ		1
California	_2	S PROJECTS	7 units	Reserved	Unit 3 generator stator DC ramp test quadrennial.	E	\$ 16,000			<u> </u>	\$ 16,000	<u> </u>	<u> </u>	\$ 16,000
		CVP,			US board BKR #6 U-2 460 supply ground in alarm.									
California	,	MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Troubleshoot and repair reason for alarm condition and restore breaker for correct non-ground indication.	D	s 15,000				\$ 15,000	ĺ		\$ 15,000
Camomia		CVP,	/ units	Reserved	oreaser for correct non-ground indication.	ע	9 15,000		<b>†</b>		ο 15,000	<b>+</b>		9 13,000
		MISCELLANEOU	SHASTA POWER FACILITY									ĺ		[
California	2	S PROJECTS CVP.	7 units	Reserved	Replace unit packing.	D	\$ 8,000	\$ 8,000	1			-		\$ 8,000
			SHASTA POWER FACILITY									ĺ		
California	2	S PROJECTS	7 units	Reserved	Replacing U-2 lower guide bearing temperature sensor.	С	\$ 7,000				\$ 7,000			\$ 7,000
·	1	CVP,	SHASTA POWER FACILITY			]				1		1		
California	2	MISCELLANEOU S PROJECTS	7 units	Reserved	Replace LGB oil tub gasket.	E	\$ 6,000	\$ 6,000				İ		\$ 6,000
-umJilla		_ 110022010		resserved		L	5,000	- 0,000	1		1	1	1	- 0,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Appendix

										Fundi	g Categories*			
	1	1		Transferred /	T	MR&R		Reclamation	Appropriated			Non-Federal Financia	ng .	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
California	2	CVP, MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Replace unit 3 TGB mercoid.	C	\$ 5,000				\$ 5,000			\$ 5,000 *
California	2	CVP, MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Seal all battery room penetrations with fire-rated caulking (IFC 608 and IBC 712).	D	\$ 5,000	\$ 5,000						\$ 5,000 *
California	2	CVP, MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Shasta condense blower motor 460vac bkrs do not annunciate on the 460 trouble alarm when open.	E	\$ 5,000				\$ 5,000			\$ 5,000 *
California	2	S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Replace exciter isolation transducer.	C	\$ 4,800				\$ 4,800			\$ 4,800 *
California	2	CVP, MISCELLANEOU S PROJECTS	SHASTA POWER FACILITY 7 units	Reserved	Unit 4 transformer doble test quadrennial.	E	\$ 4,468				\$ 4,468			\$ 4,468 *
California	2	CVP, MISCELLANEOU S PROJECTS CVP.	SHASTA POWER FACILITY 7 units	Reserved	Replace transformer oil/winding temp gauge.	С	\$ 4,300	,			\$ 4,300			\$ 4,300 *
California	2		SHASTA POWER FACILITY 7 units	Reserved	Re-calibrate or replace failed turbine guide bearing oil pressure switch 463tql.	С	\$ 4,000	,			\$ 4,000			\$ 4,000 *
California	2	MISCELLANEOU S PROJECTS CVP,	SHASTA POWER FACILITY 7 units	Reserved	Replace KU3 winding temp gauge.	С	\$ 4,000	,			\$ 4,000			\$ 4,000 *
California	2	MISCELLANEOU S PROJECTS CVP.	SHASTA POWER FACILITY 7 units	Reserved	Calibrate or replace K4BS temperature indicator.	C	\$ 3,250	,			\$ 3,250			\$ 3,250 *
California	2	MISCELLANEOU S PROJECTS CVP,	SHASTA POWER FACILITY 7 units	Reserved	Repair the damaged wiring insulation	С	\$ 1,600	,			\$ 1,600			\$ 1,600 *
California	2	MISCELLANEOU S PROJECTS CVP,	7 units	Reserved	Replace flex conduit on air system motor.	С	\$ 1,600	,			\$ 1,600			\$ 1,600 *
California	2	MISCELLANEOU S PROJECTS CVP,	SHASTA POWER FACILITY 7 units	Reserved	U2 Shasta KU2A winding temperature sensor requires calibration.	С	\$ 1,600	,			\$ 1,600			\$ 1,600 *
California	2	MISCELLANEOU S PROJECTS	7 units SMC	Reserved	U5 cooling water strainer d.p. gauge needs calibrated or replaced.	В	\$ 1,600	,			\$ 1,600			\$ 1,600 *
California	2	CVP, MISCELLANEOU S PROJECTS	WAREHOUSE/STORAGE/G J ARAGE/IRM/CARP SHOP- SHASTA	Reserved	Replace the two 75 year old Shasta Maintenance center main buildings.	С	\$ 6,600,000	\$ 6,600,000						\$ 6,600,000 *
California	2	CVP, MISCELLANEOU S PROJECTS	SMC WAREHOUSE/STORAGE/G J ARAGE/IRM/CARP SHOP- SHASTA	Reserved	Repave the SMC parking lot.	A	\$ 500,000	\$ 500,000						\$ 500,000 *
		CVP, MISCELLANEOU					·							
California	2	S PROJECTS CVP,	SHASTA SMC WAREHOUSE/STORAGE/G	Reserved	Replace low bed truck and trailer, and dump truck.	A	\$ 380,000	\$ 380,000						\$ 380,000 *
California	2	MISCELLANEOU S PROJECTS	SHASTA SMC	Reserved	Install heavy equipment wash rack.	D	\$ 200,000	\$ 200,000						\$ 200,000 *
California	2	CVP, MISCELLANEOU S PROJECTS	WAREHOUSE/STORAGE/G J ARAGE/IRM/CARP SHOP- SHASTA SMC	Reserved	Purchase and install heavy equipment vehicle cover.	A	\$ 150,000	\$ 150,000						\$ 150,000 *
California	2	CVP, MISCELLANEOU S PROJECTS	WAREHOUSE/STORAGE/G J ARAGE/IRM/CARP SHOP- SHASTA	Reserved	Grading and compacting of the heavy equipment yard at the SMC.	C	\$ 125,000	\$ 125,000						\$ 125,000 *
California	2	CVP, MISCELLANEOU S PROJECTS	SWITCHYARD BLDG.	Reserved	Switchyard lighting upgrades/repairs	С	\$ 25,000				\$ 20,000			\$ 25,000 *
California	2	CVP, MISCELLANEOU S PROJECTS	SWITCHYARD BLDG.	Reserved	Rewire/reconfigure the switching platform ground wires at the switchyard to conform to Power Equipment Bulletin (PEB) 26, Switchyard Grounding.	В	\$ 2,400				\$ 2,400			\$ 2,400 *
-		CVP,			Replace the 16" raw water pipeline between the Shasta Pumping Plant and the City of Shasta Lake Water Treatment Facility. Also replace a portion of the 10" domestic water line between		_,							
California	2	MISCELLANEOU S PROJECTS CVP,	TOYON PIPELINE CITY OF SHASTA LAKE	Transferred	the treatment facility and the entrance to the dam right abutment tunnel.	A	\$ 6,400,000	\$ 6,400,000						\$ 6,400,000 *
California	2	SACRAMENTO RIVER DIVISION	FUNKS DAM TCCA	Transferred	Repair the upstream face of the gate first gate on the left.	E	\$ 20,000						\$ 20,000	\$ 20,000 *

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										Fundin	ng Categories*			
				Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financia	ng T	<del>                                     </del>
State	Congressional District	Authorized Project	Asset Name	Reserved	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	Troject	Asset Name	WOLKS	Investigate the cause of and repair as appropriate the cracked	Kattiig	Costs	Salety	Salety	rederai	Financing	water Users	Tartiers	MIKKER Total
					and heaved concrete lining located: MP 12.987 RT - just					l '	'			1
		CVP, SACRAMENTO			downstream of the right side canal escape ladder at the inlet to Check 5. MP 36.987 RT - just upstream of the right side canal					l '	'			1
California	2		TEHAMA COLUSA CANAL	Transferred	escape ladder at the inlet to Check 11.	D	\$ 5,000			·			\$ 5,000	\$ 5,000 *
		CVP,			Restore the radial gates topcoat at Checks 2, 3, and 10. On the						1			
California	2	SACRAMENTO RIVER DIVISION	TEHAMA COLUSA CANAL	Transferred	gates at Check Structures 4, 5, and 11, mitigate areas of corrosion by properly preparing the surface and spot-coating.	F	s 5.000			l '	'		s 5.000	\$ 5,000 *
Camorina		CVP,	TEHAMA COLOSA CANAL	Transierred	corrosion by property preparing the surface and sporecoating.	L	3,000						3 3,000	5,000
		SACRAMENTO			Survey the canal right-of-way and stake it based on the survey					·				1.
California	2	RIVER DIVISION CVP.	TEHAMA COLUSA CANAL	Transferred	results in areas where Reclamation right-of-way is unclear.  At Check 1 (MP 0.51), replace the hoist cables for gate No. 3 so	E	\$ 5,000	\$ 2,500		<b></b>	-		\$ 2,500	\$ 5,000 *
		SACRAMENTO			there are two full wraps of cable on the hoist drums when the					l '	'			1
California	2		TEHAMA COLUSA CANAL	Transferred	gate is closed.	C	\$ 1,000	<u> </u>					\$ 1,000	\$ 1,000 *
California	2	CVP, TRINITY RIVER DIVISION	CLEAR CREEK TUNNEL	Reserved	Repair uplifted concrete and spalls in the tunnel lining; clear weep holes to prevent future uplift.		\$ 1,921,000	\$ 1,921,000		·				\$ 1.921.000
Camornia		CVP, TRINITY	JUDGE FRANCIS CARR	Reserved	weep noies to prevent future upint.	A	\$ 1,921,000	\$ 1,921,000	† †			<del>                                     </del>	<del>                                     </del>	\$ 1,921,000
California	2	RIVER DIVISION	POWER FACILITY	Reserved	Generator rewind unit 2.	C	\$ 9,760,000				\$ 9,760,000			\$ 9,760,000 *
C-lifi-	2	CVP, TRINITY RIVER DIVISION	JUDGE FRANCIS CARR	December	Cti-1	С	6 0.760.000			l '	£ 0.760.000			0.760.000 8
California		CVP. TRINITY	POWER FACILITY JUDGE FRANCIS CARR	Reserved	Generator rewinds unit 1.		\$ 9,760,000	<del>                                     </del>	+		\$ 9,760,000		<del>                                     </del>	\$ 9,760,000 *
California	2	RIVER DIVISION	POWER FACILITY	Reserved	Replace Main Unit Transformer KRA.	A	\$ 5,940,000	<u> </u>		<u> </u>	\$ 5,940,000			\$ 5,940,000 *
California	2	CVP, TRINITY	JUDGE FRANCIS CARR	Reserved	Panlage excitation greatenes on point 1 % 2		9 2 405 000			i	\$ 2.405.000			9 2405.000 *
California	2	RIVER DIVISION CVP, TRINITY	POWER FACILITY JUDGE FRANCIS CARR	Keserved	Replace excitation systems on units 1 & 2.	A	\$ 2,405,000	<del>                                     </del>	+		\$ 2,405,000	<del>                                     </del>	<del>                                     </del>	\$ 2,405,000 *
California	2		POWER FACILITY	Reserved	Replace existing analog governors.	В	\$ 746,250	<u> </u>		<u> </u>	\$ 746,250		<u> </u>	\$ 746,250 *
		CVP, TRINITY	JUDGE FRANCIS CARR							i '	[ '			
California	2		POWER FACILITY	Reserved	Upgrade Fire Alarm Systems.	A	\$ 510,000	\$ 480,000		·				\$ 480,000
	_	CVP, TRINITY	JUDGE FRANCIS CARR							1				
California	2	RIVER DIVISION	POWER FACILITY	Reserved	Unit Air blast Circuit Breaker Replacements Re-circuit all exit signage and unit emergency lights that are not	С	\$ 400,000	<del> </del>		<b></b>	\$ 400,000		<del> </del>	\$ 400,000 *
					on the same branch circuit that are serving the normal lighting in					·				1
		CVP, TRINITY	JUDGE FRANCIS CARR		the area and are not connected ahead of any local switches as					·				1
California	2	RIVER DIVISION CVP. TRINITY	POWER FACILITY JUDGE FRANCIS CARR	Reserved	required by code.	В	\$ 80,000	\$ 19,000		<b></b>	\$ 61,000		<del> </del>	\$ 80,000 *
California	2	RIVER DIVISION	POWER FACILITY	Reserved	Replace draft tube drain "mud" valve with modern equivalent.	С	\$ 12,000	s 12,000		·				\$ 12,000 *
		CVP, TRINITY	JUDGE FRANCIS CARR					,,,,,						
California	2	RIVER DIVISION	POWER FACILITY	Reserved	Correct grounding issues.	E	\$ 60,000	<b>↓</b>			\$ 11,000		<b></b>	\$ 11,000 *
California	2	CVP, TRINITY RIVER DIVISION	JUDGE FRANCIS CARR POWER FACILITY	Reserved	Troubleshoot and repair leaking oil pump in the butterfly valve house.	F	\$ 4,000	\$ 4,000		·				\$ 4,000 *
Cumoma		CVP, TRINITY	JUDGE FRANCIS CARR	reserved	Ensure that all piping connections (top and bottom) are removed									
California	2	RIVER DIVISION	POWER FACILITY	Reserved	from the transformer oil tanks.	D	\$ 3,000	\$ 3,000		<u> </u>				\$ 3,000 *
		CVP. TRINITY	JUDGE FRANCIS CARR		Determine reason for inaccuracy in the Generator air cooler water pressure gauge at governor and take necessary steps to					l '	'			1
California	2		POWER FACILITY	Reserved	correct inaccuracy.	E	\$ 2,866			·	\$ 2,866			\$ 2,866 *
		CVP, TRINITY	JUDGE FRANCIS CARR							1				1.
California	2	RIVER DIVISION CVP. TRINITY	POWER FACILITY JUDGE FRANCIS CARR	Reserved	Station service feeder breaker 52C mis-operation.	С	\$ 2,800	<b></b>	+		\$ 2,800		<b></b>	\$ 2,800 *
California	2	RIVER DIVISION	POWER FACILITY	Reserved	CORE TEMP #6 NOT WORKING	A	\$ 1,150			·	\$ 1,150			\$ 1,150 *
		CVP, TRINITY	JUDGE FRANCIS CARR											
California	2	RIVER DIVISION CVP, TRINITY	POWER FACILITY JUDGE FRANCIS CARR	Reserved	Replace transformer oil level indicator.	С	\$ 350	<b></b>	+		\$ 350		<b></b>	\$ 350 *
California	2	RIVER DIVISION	POWER FACILITY	Reserved	CR unit 1 exciter voltage re-alignment.	D	\$ 280			i '	\$ 280			\$ 280 *
		CVP, TRINITY	LEWISTON DAM and											
California	2	RIVER DIVISION	RESERVOIR	Reserved	Fabricate stop logs.  Perform localized rust removal and recoating of the interior	С	\$ 1,900,000	\$ 1,900,000	<del>                                     </del>	<del></del> '	<b></b> '	<del> </del>	<del> </del>	\$ 1,900,000
					surfaces of both spillway radial gates and the exterior surfaces					i '	[ '			
0.110		CVP, TRINITY	LEWISTON DAM and		of the right spillway gate (gate number 2). Clean and recoat or					i '	[ '			
California	2	RIVER DIVISION	RESERVOIR	Reserved	replace the corroded steel connecting member bolts and nuts.	С	\$ 125,000	\$ 125,000	<del>                                     </del>		<u> </u>	<del>                                     </del>	<del> </del>	\$ 125,000 *
										1	I '			1
		CVP, TRINITY	LEWISTON DAM and		L					i '	[ '			
California	2	RIVER DIVISION	RESERVOIR	Reserved	Replace the wire rope lifting cables for both spillway gates.  At the hatchery outlet works regulating gate structure, repair the	D	\$ 125,000	\$ 125,000	<del>                                     </del>	<del></del> '	<del>                                     </del>	<del>                                     </del>	<del> </del>	\$ 125,000
					faulty limit switches for regulating gates No. 2 and N0, 3, the				]	i '	1			1
		CVP, TRINITY	LEWISTON DAM and		limit switches fail to operate properly when the gates are being					1	I '			1
California	2	RIVER DIVISION CVP, TRINITY	RESERVOIR LEWISTON DAM and	Reserved	fully closed.	E	\$ 5,000	\$ 5,000	<del>                                     </del>	<del></del> '	<b></b> '	<del> </del>	<del> </del>	\$ 5,000 *
California	2	RIVER DIVISION	RESERVOIR	Reserved	Install appropriate labeling on all electrical equipment.	D	s 700	\$ 50		i '	1			\$ 50 *
			LEWISTON FISH				, , , ,							
California	2	CVP, TRINITY RIVER DIVISION	HATCHERY EQUIP and STORAGE SHED	Transferred	Repair the hatchery water intake system.	A	\$ 1,500,000	\$ 1,500,000	]	i '	1			\$ 1,500,000 *
Camornia	2	KIVEK DIVISION	LEWISTON FISH	ransterred	rcepan the natenery water imake system.	A	a 1,500,000	a 1,500,000	+		<del>                                     </del>	<del>                                     </del>	<del> </del>	a 1,500,000 *
		CVP, TRINITY	HATCHERY EQUIP and	1						i '	1			1
California	2	RIVER DIVISION CVP, TRINITY	STORAGE SHED LEWISTON FISH	Transferred	Refurbish or replace electrical components of regulating gates.	С	\$ 175,000	\$ 175,000	<del>                                     </del>				ļ	\$ 175,000 *

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State  California  California  California  California	Congressional District	Authorized		Transferred /					Appropriated			Non-Federal Financia	ıg	
California California California California		Authorized		Transferred /										
California California California California		Authorizeu		Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
California California California	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
California California		Troject	LEWISTON FISH	WUIKS	Brief Description of Work Needed	Kaung	Costs	Salety	Sarcty	reuerai	rmancing	water Users	1 at thers	MK&K 10tai
California  California		CVP, TRINITY	HATCHERY SPAWNING											
California  California	2		BLDG	Transferred	Provide Secondary water source to Lewiston Fish Hatchery.	В	\$ 2,650,000	\$ 2,650,000						\$ 2,650,000
California  California	_		LEWISTON FISH		,	_	2,000,000	_,,,,,,,,						_,,,,,,,,,
California  California		CVP, TRINITY	HATCHERY SPAWNING		Remove corrosion and recoat the six holding tank gates and									
California	2	RIVER DIVISION	BLDG	Transferred	replace the spawning building gate.	C	\$ 175,000	\$ 175,000						\$ 175,000
California			LEWISTON FISH											
California			HATCHERY SPAWNING		Repair or replace deteriorated asphalt roofing at the river outlet									
	2	RIVER DIVISION	BLDG	Transferred	works.	В	\$ 92,000	\$ 92,000						\$ 92,000
	_	CVP, TRINITY RIVER DIVISION	LEWISTON POWER	Reserved	Install Fire Alarm System in accordance with current Fire and Life Safety Code Requirements.		s 250,000	\$ 225,000						\$ 225,000
California		CVP, TRINITY	LEWISTON POWER	Reserved	Perform the required arc flash analysis and install the	A	\$ 250,000	\$ 225,000						\$ 225,000
California	2	RIVER DIVISION	FACILITY	Reserved	appropriate arc flash labels on all electrical equipment.	A	S 480				s 480			\$ 480
		KIVEK DIVISION	NORTH QUARTERS,	Reserved	appropriate are masir labers on an electrical equipment.	A	3 400				3 400			3 400
		CVP. TRINITY	TRINITY RIVER FISH											
California	2	RIVER DIVISION		Transferred	Re-roof residence, structural repairs as needed.	С	\$ 25,000	\$ 25,000						\$ 25,000
			SOUTH QUARTERS,		,									
		CVP, TRINITY	TRINITY RIVER FISH											
California	2	RIVER DIVISION	HATCHERY	Transferred	Re-roof residence, structural repairs as needed.	C	\$ 25,000	\$ 25,000						\$ 25,000
		CVP, TRINITY	SPRING CREEK DEBRIS		Replace overhead power and communications with an under									
California	2	RIVER DIVISION		Reserved	ground duct bank.	A	\$ 750,000	\$ 750,000						\$ 750,000
		CVP, TRINITY	SPRING CREEK DEBRIS		Address the drainage issues and repair the erosion along the						]		1	
California	2	RIVER DIVISION	DAM	Reserved	upstream right groin.	D	\$ 400,000	\$ 400,000						\$ 400,000
				1	Repair spalled and de-laminated areas of the spillway shoot to			1			]		1	
		over many	annus antru nennus		prevent further damage by weathering and possible freeze-thaw									
California	2	CVP, TRINITY RIVER DIVISION	SPRING CREEK DEBRIS DAM	Reserved	activity. Also remove vegetation form the cracks and control joints along the spillway shoot.	D	\$ 100,000	\$ 100,000			]		1	\$ 100,000
camornia		KIVEK DIVISION	DAM	Reserved	Jonns arong the spiriway snoot.	ט	a 100,000	a 100,000	-		}	-	-	a 100,000
									1		l			
		CVP, TRINITY	SPRING CREEK POWER											
California	2	RIVER DIVISION		Reserved	Purchase and install two new turbine runners (Units 1 & 2).	Δ	\$ 16,800,000				\$ 6,720,000			\$ 6,720,000
	_	CVP, TRINITY	SPRING CREEK POWER								,,,,			, ,,,,,,,,,
California	2	RIVER DIVISION		Reserved	Replace Main Unit Transformer KRA.	A	\$ 5,970,000				\$ 5,900,000			\$ 5,900,000
					Clean and repaint damaged areas of penstock interior lining to									
					prevent any metal loss of the penstocks due to corrosion damage									
		CVP, TRINITY	SPRING CREEK POWER		and to prevent any penstock wall thinning which would reduce									
California	2	RIVER DIVISION	FACILITY	Reserved	current safety margins.	В	\$ 3,300,000				\$ 3,300,000			\$ 3,300,000
		CVP, TRINITY	SPRING CREEK POWER											
California	2	RIVER DIVISION		Reserved	Replace excitation system for unit 1 and unit 2.	A	\$ 2,520,000				\$ 2,520,000			\$ 2,520,000
	_	CVP, TRINITY	SPRING CREEK POWER											
California	2	RIVER DIVISION CVP. TRINITY	FACILITY SPRING CREEK POWER	Reserved	Install vibration monitoring on all units.	C	\$ 750,000				\$ 750,000			\$ 750,000
California	2	RIVER DIVISION		Reserved	Replace existing analog governors.	R	s 746,250				\$ 746,250			\$ 746,250
Camornia	- 2	KIVEK DIVISION	PACIEII I	Reserved	Replace existing analog governors.	Б	3 /40,230				\$ /40,230			\$ /40,230
		CVP, TRINITY	SPRING CREEK POWER		Upgrade the existing Fire Alarm Systems and bring them up to									
California	2	RIVER DIVISION		Reserved	current Fire and Life Safety Code Requirements.	A	s 750,000	s 700,000						\$ 700,000
		CVP, TRINITY	SPRING CREEK POWER											
California	2	RIVER DIVISION	FACILITY	Reserved	Unit Air blast Circuit Breaker Replacements	C	\$ 400,000				\$ 400,000			\$ 400,000
					Verify that all exit signage and unit emergency lights (bug eyes,									
				1	etc.) are on the same branch circuit as that serving the normal									
		l		1	lighting in the area, connected ahead of any local switches as			1			]		1	
0.110			SPRING CREEK POWER	I	required by code. Re-circuit all exit and emergency lights not in	_								
California	2	RIVER DIVISION	FACILITY	Reserved	compliance with code.	В	\$ 80,000	\$ 19,000			\$ 61,000			\$ 80,000
		CVP. TRINITY	SPRING CREEK POWER	1	Tailrace basin floor needs repairs to prevent further erosion and			1			]		1	
California	2	RIVER DIVISION	SPRING CREEK POWER FACILITY	Reserved	possibility of undermining the structural integrity of the tailrace basin perimeter wall.	E	S 50,000		1		\$ 50,000			\$ 50,000
California		CVP. TRINITY	SPRING CREEK POWER	Keserved	Install a flowmeter in the emergency shower/eyewash station	E	\$ 50,000	-			a 50,000		-	\$ 50,000
California	2	RIVER DIVISION	FACILITY	Reserved	water line.	D	\$ 10,000		1		\$ 10,000			\$ 10,000
Camonna	-	CVP, TRINITY	SPRING CREEK POWER	Reserved	nuce into	- D	5 10,000				y 10,000			y 10,000
California	2	RIVER DIVISION	FACILITY	Reserved	Repair leaking draft tube door.	E	s 5,000	\$ 5,000	1		l			\$ 5,000
		CVP, TRINITY	SPRING CREEK POWER		1		. 5,000	. 5,500	1		1		1	. 5,000
California	2	RIVER DIVISION	FACILITY	Reserved	Unit 1 transducers inspection - biennial - C&I	E	\$ 4,485		1		\$ 4,485			\$ 4,485
		CVP, TRINITY	SPRING CREEK POWER		•									
California	2	RIVER DIVISION	FACILITY	Reserved	Control board light repair.	D	\$ 3,720				\$ 3,720			\$ 3,720
		CVP, TRINITY	SPRING CREEK POWER		Ensure that all piping connections (top and bottom) are removed									
California	2	RIVER DIVISION	FACILITY	Reserved	from the transformer oil tanks.	D	\$ 3,000	\$ 3,000						\$ 3,000
		CVP, TRINITY	SPRING CREEK POWER		Line meters indicate less than half of actual plant load, needs re-						l .		1	
California	2	RIVER DIVISION	FACILITY	Reserved	calibration.	C	\$ 1,500				\$ 1,500			\$ 1,500
		l			Repair the erosion damaged concrete and reinforcing steel on				1		l			
0.110		CVP, TRINITY	TRINITY DAM and	I	the interior of the floor and walls of the main outlet works	_					]		1	
California	2	RIVER DIVISION		Reserved	discharge stilling basin.	D	\$ 15,000,000	\$ 15,000,000						\$ 15,000,000
		CVP, TRINITY	TRINITY DAM and		Refurbish the 10ftx20ft fixed wheel gate (emergency guard gate)				1		l			
California	2	RIVER DIVISION	RESERVOIR	Reserved	located on the river outlet works penstock.	D	\$ 14,400,000	\$ 11,700,000					<b> </b>	\$ 11,700,000
California	2	CVP, TRINITY RIVER DIVISION	TRINITY DAM and	D	Replace conduit throughout dam tunnels.	F	s 600,000	\$ 600,000	1		l	1	1	\$ 600,000

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										Fundi	ng Categories*			7
		1	T	T. 6 1/		MDeD		Dl	Appropriated			Non-Federal Financii	ng	ļ
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total Costs	Reclamation Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
	District	CVP, TRINITY	TRINITY DAM and		•				Salety	reuerai	rmanenig	water Osers	1 artifers	
California	2	RIVER DIVISION CVP, TRINITY	RESERVOIR TRINITY DAM and	Reserved	Correct 2017 safety deficiencies.	С	\$ 20,000	\$ 20,000						\$ 20,000 *
California	2	RIVER DIVISION CVP. TRINITY	RESERVOIR TRINITY DAM and	Reserved	Replace guard rail posts.	E	\$ 10,000	\$ 10,000						\$ 10,000 *
California	2	RIVER DIVISION	RESERVOIR	Reserved	Update SOP.	E	\$ 4,000	\$ 4,000						\$ 4,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Replace the two 158" butterfly valves.	В	\$ 15,000,000	\$ 15,000,000						\$ 15,000,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Replace three Main Unit Transformers KRA, and Repaint/ repair exterior metal structure.	A	\$ 5,940,000				\$ 5,940,000			\$ 5,940,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Install vibration monitoring on all units.	В	\$ 3,300,000				\$ 3,300,000			\$ 3,300,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Replace excitation systems for unit 1 and unit 2.	A	\$ 2,520,000				\$ 2,520,000			\$ 2,520,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Replace existing analog governors.	В	\$ 746,250				\$ 746,250			\$ 746,250 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Purchase a lifting hoist.	В	\$ 620,000				\$ 620,000			\$ 620,000 *
		CVP. TRINITY			Upgrade the existing Fire Alarm Systems and bring them up to									
California	2	RIVER DIVISION	TRINITY POWER FACILITY	Reserved	current Fire and Life Safety Code Requirements.	A	\$ 560,000	\$ 560,000						\$ 560,000
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Penstock coating and corrosion rehabilitation.	В	\$ 500,000				\$ 500,000			\$ 500,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Tile-Unit Air blast Circuit Breaker Replacements.	С	\$ 400,000				\$ 400,000			\$ 400,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Maintenance of TN unit 2 generating and associated systems.	D	\$ 82,342	\$ 82,342						\$ 82,342 *
					Re-circuit all exit signage and unit emergency lights that are not on the same branch circuit as that serving the normal lighting in									
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	the area and are not connected ahead of any local switches as required by code.	В	\$ 80,000	\$ 19,000			\$ 61,000			\$ 80,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Correct 2017 electrical safety deficiencies.	С	s 40,000	s 40,000						\$ 40,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Update ARC flash labeling throughout the powerplant.	C	s 30,000	,			\$ 30,000			\$ 30,000 *
	2	CVP, TRINITY	TRINITY POWER FACILITY			С		\$ 16,000			30,000			\$ 16,000 *
California	2	RIVER DIVISION CVP, TRINITY		Reserved	Troubleshoot and repair inoperative camera on top of dam.	C	\$ 16,000	\$ 16,000						,
California	2	RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Install are flash labels according to guidelines.	A	\$ 12,000				\$ 12,000			\$ 12,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Relocate the present eyewash/ shower station to inside the battery room. Eyewash/ shower stations must be plumbed with potable water and the path of travel must be free of obstructions	Е	\$ 10,000	\$ 10,000						\$ 10,000 *
California	2		TRINITY POWER FACILITY	Reserved	Install Arc flash labeling to Trinity station service panels.	С	\$ 5,000				\$ 5,000			\$ 5,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Repair HVAC south blower.	С	\$ 5,000	\$ 5,000						\$ 5,000 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	The Trinity camera #15 malfunctioned, the screen went blank and would not reconnect.	С	\$ 3,200	\$ 3,200						\$ 3,200 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	Rebuild ACB air blast valve.	С	\$ 2,700				\$ 2,700			\$ 2,700 *
California	2	CVP, TRINITY RIVER DIVISION	TRINITY POWER FACILITY	Reserved	TN 375 air compressor over temperature mercoid calibration, change the set point to 300 degree Fahrenheit	E	\$ 125				\$ 125			\$ 125 *
California	2	CVP, TRINITY RIVER DIVISION	WHISKEYTOWN DAM and RESERVOIR	Reserved	Bypass filling valve replacement, and guard gate inspection.	A	\$ 3,400,000	\$ 3,400,000						\$ 3,400,000 *
	2	CVP, TRINITY	WHISKEYTOWN DAM and											
California	2	RIVER DIVISION CVP, TRINITY	RESERVOIR WHISKEYTOWN DAM and	Reserved	Coat interior of penstocks 1 & 2.  Design the replacement of two corroded steel equalizer pipes	C	\$ 1,890,000							\$ 1,890,000 *
California	2	RIVER DIVISION	RESERVOIR	Reserved	under Hwy 299.  Make repairs to the electrical panels and electrical equipment	С	\$ 1,200,000	\$ 1,200,000						\$ 1,200,000 *
California	2.	CVP, TRINITY RIVER DIVISION	WHISKEYTOWN DAM and RESERVOIR	Reserved	installed within the wall of the outlet works downstream tunnel along the crown of the tunnel and upgrade to equipment for "we use" per the current NEC code where possible.	В	\$ 800,000	\$ 800,000						\$ 800,000 *
California	2	CVP, TRINITY RIVER DIVISION	WHISKEYTOWN DAM and RESERVOIR	Reserved	Reseal cracks allowing water seepage onto electrical junction boxes.	С	\$ 15,000							\$ 15,000 *
California	2	CVP, TRINITY	WHISKEYTOWN DAM and RESERVOIR	Reserved	Replace regulating gate limit switch.	С	\$ 1,200							\$ 1,200 *
California	2	KLAMATH PROJECT	M CANAL SYSTEM		M-Canal Liner Repair	С	\$ 250,000						\$ 250,000	
California	2	ORLAND PROJECT	EAST PARK DAM, Dikes and Reservoir	Transferred	Outlet Works Gates rehabilitation	D	\$ 65,000						\$ 65,000	
California	2	ORLAND PROJECT	EAST PARK DAM, Dikes and Reservoir	Transferred	Properly abandon the 24-inch sluice gate conduit to avoid possible uncontrolled water releases from the reservoir in case of gate failure.	D	\$ 12,000						\$ 12,000	
	-	ORLAND	EAST PARK DAM, Dikes and											
California	2	PROJECT ORLAND	Reservoir		Remove vegetation.	E	\$ 10,000						\$ 10,000	
California	2	PROJECT	STONY GORGE DAM	Transferred	Rehab or replace all 3 spillway gates at Stony Gorge	A	\$ 6,000,000	\$ 6,000,000						\$ 6,000,000 *

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										Fundir	g Categories*			]
	1	ı	1	Transferred /	T	MR&R		Reclamation	Appropriated			Non-Federal Financin	ig .	<del></del>
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
California	2	ORLAND PROJECT	STONY GORGE DAM	Transferred	Re-position trash rack, and clean trash racks of debris and silt.	E	\$ 100,000	\$ 100,000						\$ 100,000 *
California	3	CVP, AUBURN- FOLSOM SOUTH UNIT	FOLSOM SOUTH CANAL	Reserved	Automate the Folsom South Canal Headworks.	C	\$ 2,000,000				\$ 2,000,000			\$ 2,000,000 *
California	3	CVP, AUBURN- FOLSOM SOUTH UNIT CVP,	FOLSOM SOUTH CANAL	Reserved	The Folsom South Canal removal of the trees that have grown in the banks of the canal.	Е	\$ 250,000	\$ 250,000						\$ 250,000
California	3	MISCELLANEOU S PROJECTS CVP.	Delta Cross Channel	Reserved	Install a cathodic protection system to the Radial Gates	С	\$ 700,000	\$ 650,000						\$ 650,000 *
California	3	MISCELLANEOU S PROJECTS	Delta Cross Channel	Reserved	Clean and re-coat the control structure gates	E	\$ 500,000	\$ 500,000						\$ 500,000 *
California	3	CVP, MISCELLANEOU S PROJECTS	Delta Cross Channel	Reserved	Verify gate hoist grounding system integrity and functionality and prevent corrosion.	D	\$ 200,000	\$ 200,000						\$ 200,000 *
California	3	CVP, MISCELLANEOU S PROJECTS	Delta Cross Channel	Reserved	Repair and Install new gear assemblies for both gates.	В	\$ 1,016,600	\$ 183,000						\$ 183,000
California	3	CVP, MISCELLANEOU S PROJECTS		Reserved	Clean and Re-coat the control structures hand rails and gate hoist equipment	E	\$ 50,000	\$ 50,000						\$ 50,000 *
	3	CVP, MISCELLANEOU				E								
California		S PROJECTS CVP, MISCELLANEOU	Delta Cross Channel	Reserved	Replace gate hoist motors  Remove woody and grassy vegetation and accumulated soil off of the wing walls and remove trees that are within 25 ft of the	_	\$ 25,000	\$ 25,000						\$ 25,000 *
California	3	S PROJECTS CVP,	Delta Cross Channel	Reserved	gate structure	Е	\$ 10,000	\$ 10,000						\$ 10,000 *
California	3		FOLSOM DAM ADMIN OFFICE	Reserved	This project is a rehabilitation of the Administration Building which is a historic structure that includes several components.	C	\$ 2,000,000	\$ 1,990,000						\$ 1,990,000
California	3	CVP, MISCELLANEOU S PROJECTS	NIMBUS DAM	Reserved	Nimbus Powerplant  1) Refurbish Pump No.'s 2, 3, 4, 5, 6, 7, 8, and the Emergency Pump at vendor shop.  2) Refurbish Motor No.'s 2, 3, 4, 5, 6, and the Emergency Pump 3) Furnish new supply side and discharge side isolation and regulating valves, and furnish new motor operators for all isolation/regulating valves.  4) Replace auxiliary system components with the intent to restore life and reliability to functional systems.	A	\$ 4.700,000					\$ 4.700,000		\$ 4.700,000
California	3	CVP, MISCELLANEOU S PROJECTS	NIMBUS DAM	Reserved	A new water supply line installation.	A	s 150,000	s 150,000				,,		\$ 150,000
California	3	CVP, MISCELLANEOU S PROJECTS	NIMBUS FISH HATCHERY NURSERY		Phase IV Modernization. Replace existing fish ladder and diversion structure by constructing a flume upstream from the hatchery to a ladder structure in the basin of Nimbus Dam thereby using the dam as the upstream barrier instead of the existing fish pickets.	В	\$ 10,759,593	\$ 3,060,000						\$ 3,060,000
		CVP, MISCELLANEOU			Replacement/overhaul/rehabilitation/upgrade of equipment at Nimbus Powerplant including turbines, governor, rotor, stator, protection & control boards/systems and CVACS interface, switch gear, fire suppression and alarm system, HVAC, water treatment system, all auxiliary electrical and mechanical systems/equipment, piping (air water and oil), bulkhead gates,									
California	3	S PROJECTS CVP, MISCELLANEOU	NIMBUS POWER FACILITY	Reserved	and fixed wheel gates.	A	\$ 48,000,000				\$ 48,000,000			\$ 48,000,000 *
California	3	S PROJECTS CVP, MISCELLANEOU	NIMBUS POWER FACILITY	Reserved	Station Service Replacement.	A	\$ 4,600,000				\$ 4,500,000			\$ 4,500,000
California	3	S PROJECTS CVP, MISCELLANEOU	NIMBUS POWER FACILITY	Reserved	Unit Governor Component Replacement	A	\$ 4,200,000				\$ 4,183,020			\$ 4,183,020 *
California	3	S PROJECTS CVP,	NIMBUS POWER FACILITY	Reserved	Nimbus Powerplant Turbine will under go a complete overhaul	A	\$ 2,000,000				\$ 2,000,000			\$ 2,000,000 *
California	3	MISCELLANEOU S PROJECTS CVP,	NIMBUS POWER FACILITY	Reserved	Surge Tanks - Clean, prime, and recoat; Replace base coat	С	\$ 2,000,000				\$ 2,000,000			\$ 2,000,000 *
California	3	MISCELLANEOU S PROJECTS CVP,	NIMBUS POWER FACILITY	Reserved	Substation Improvements.	D	\$ 1,800,000				\$ 1,651,402			\$ 1,651,402
California	3	MISCELLANEOU S PROJECTS	NIMBUS POWER FACILITY	Reserved	Determine and install a more efficient cleaning system and/or process to clean the Nimbus powerplant trash racks.	В	\$ 956,000				\$ 956,000			\$ 956,000

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										Fundir	g Categories*			
		I	1	Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financir	g	1
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		CVP, MISCELLANEOU			Installing a log screen boom or equivalent system to prevent accumulation of debris in the enclosed apron area and at the									
California	3	S PROJECTS	NIMBUS POWER FACILITY	Reserved	Nimbus Power plant trash racks.	A	\$ 750,000				\$ 660,000			\$ 660,000
		CVP, MISCELLANEOU												
California	3	S PROJECTS	NIMBUS POWER FACILITY	Reserved	Breaker and buss replacement	A	\$ 500,000				\$ 500,000			\$ 500,000 *
		CVP, MISCELLANEOU												
California	3	S PROJECTS CVP, AUBURN-	NIMBUS POWER FACILITY	Reserved	Replace Nimbus Powerplant Station Service two Batteries Construct new bridge to replace former Greenwood Bridge	В	\$ 100,000				\$ 100,000			\$ 100,000 *
		FOLSOM SOUTH			across the Middle Fork American River connecting Slier Mine									
California	4	UNIT	AREA	Transferred	Road and McKeon Ponderosa Road on Ponderosa Way,	В	\$ 2,000,000			\$ 2,000,000				\$ 2,000,000 *
		CVP, AUBURN-			Construct pedestrian/operations bridge across North Fork									
California	4	FOLSOM SOUTH UNIT	AUBURN RECREATION AREA	Transferred	American River near China Bar in Folsom Lake SRA. Replace the Auburn-Cool Trail crossing as mitigation for pump station.	В	\$ 3,000,000			\$ 1,500,000				\$ 1,500,000 *
		CVP, AUBURN-					2,000,000			,,				3,000,000
California	4	FOLSOM SOUTH UNIT	AUBURN RECREATION AREA	Transferred	Remove concrete and steel debris from former Hwy 49 bridges from North Fork American River on Auburn project lands.	A	S 1.000.000			\$ 1.000.000				s 1.000.000 *
		CVP, AUBURN-			Repair McKeon Ponderosa Road from former county road to		3,000,000			,,				3,000,000
California	4	FOLSOM SOUTH UNIT	AUBURN RECREATION AREA	Transferred	Greenwood Bridge site/Drivers Flat Road at Ruck-A-Chucky Campground on Auburn project lands.	C	\$ 932,000	\$ 932,000						\$ 932,000 *
					Repave Maidu Drive, north end from City of Auburn boundary	-								
		CVP, AUBURN- FOLSOM SOUTH	AUBURN RECREATION		near the Canyon View Community Center at 471 Maidu Drive, about 1,600 linear feet to the intersection with Pleasant Avenue									
California	4	UNIT	AREA	Transferred	where PCWA repaying has been completed.	A	\$ 805,000						\$ 805,000	\$ 805,000 *
		CVP, AUBURN-			Repair Slier Mine Road from El Dorado County road end to Cherokee Bar, Greenwood Bridge site, and spur road to									
		FOLSOM SOUTH			bioreactor on Middle Fork American River on Auburn project	_								
California	4	UNIT CVP, AUBURN-	AREA	Transferred	lands.  Repair sinkholes and other holes in gravel fill at Oregon	С	\$ 768,000	1		\$ 768,000				\$ 768,000 *
		FOLSOM SOUTH	AUBURN RECREATION		Hill/China Bar flat near public parking area, remove buried	C				\$ 500,000				\$ 500,000 *
California	4	UNIT	AREA	Transferred	metal structures from concrete batch plant.	C	\$ 500,000	<b>†</b>		\$ 500,000				\$ 500,000 *
		CVP, AUBURN-	. LIDVIDA I DECORE LINCAL		Repair Core Shed: Remove broken core samples and boxes from									
California	4	FOLSOM SOUTH UNIT	AUBURN RECREATION AREA	Transferred	fenced site on China Bar Road, open Auburn project lands. Repair roof structure. State Parks will install picnic facilities.	С	\$ 200,000			\$ 200,000				\$ 200,000 *
		CVP,												
California	4	MISCELLANEOU S PROJECTS	FOLSOM DAM	Reserved	SOD Modifications to address hydrologic overtopping, seismic, and internal erosion issues	A	\$ 338,500,000		\$ 9,597,000					\$ 9,597,000
		CVP,			Repair concrete damage identified during the 2012 CR									
California	4	MISCELLANEOU S PROJECTS	FOLSOM DAM	Reserved	examination in the outlet works discharge conduits No. 3, No. 4 and No. 6	E	\$ 8,000,000				\$ 8,000,000			\$ 8,000,000 *
		CVP,												
California	4	MISCELLANEOU S PROJECTS	FOLSOM DAM	Reserved	Seal monolith joints	D	\$ 6,255,000				\$ 6,255,000			\$ 6,255,000 *
					Work will cover repair/re-coating of all three upstream									
		CVP,			temperature control devices for Folsom Dam. Also replacing the three Temperature Control Shutters on the upstream of Folsom									
C I'C .	4	MISCELLANEOU	POLCOM PAN	ъ .	Dam This work is based on recommendations from climb	D	6 5000,000	6 5000,000						6 5000,000 *
California	4	S PROJECTS CVP,	FOLSOM DAM	Reserved	inspections and from annual inspections.	D	\$ 5,000,000	\$ 5,000,000						\$ 5,000,000 *
California	4	MISCELLANEOU S PROJECTS	FOLSOM DAM	Reserved	Perform repairs or replacements utilizing a barge and divers as	В	\$ 3,825,000	\$ 3,825,000						\$ 3,825,000 *
California	4	CVP,	FOLSOM DAM	Keserved	required.	В	\$ 3,825,000	\$ 3,825,000						\$ 3,825,000 *
California	4	MISCELLANEOU S PROJECTS	FOLSOM DAM	Reserved	Replace Folsom Pumping Plant FOU pumps #7 and #8 Variable Frequency Drives (VFDs).	A	\$ 900,000					\$ 900,000		\$ 900,000 *
California	4	CVP,	FOLSOM DAM	Keserved	Frequency Drives (VFDs).	A	\$ 900,000					\$ 900,000		\$ 900,000 *
California	4	MISCELLANEOU S PROJECTS	FOLSOM DAM	Reserved	Overlay existing parking lot asphalt with a new layer of asphalt to provide a new driving surface	C	\$ 450,000	\$ 450,000						\$ 450,000 *
California	4	S PROJECTS	POLSOM DAM	Reserved	Replacement/overhaul/rehabilitation/upgrade of equipment at	C	\$ 430,000	\$ 430,000						3 430,000
					Folsom Powerplant Station Service D2A including all associated parts such as station service transformers, instrumentation									
		CVP,			transformers, AC & DC panels, motor control centers, station									
California	A	MISCELLANEOU S PROJECTS	FOLSOM POWER FACILITY 3 units	Reserved	service circuit breakers along with protection devices and metering equipment.	_	s 2,500,000				\$ 2,500,000			\$ 2,500,000 *
Camornid	7	CVP,	-	reserveu	meeting equipment.	А	2,300,000	<u> </u>			2,200,000			2,300,000
California	4	MISCELLANEOU S PROJECTS	FOLSOM POWER FACILITY 3 units	Reserved	Penstock repair and recoating.	D	\$ 1,300,000				\$ 1,300,000			\$ 1,300,000
		CVP,					1,500,000				,500,000			. 1,500,000
California	4	MISCELLANEOU S PROJECTS	FOLSOM POWER FACILITY 3 units	Reserved	Oil Room Fire Suppression System Upgrades	A	\$ 1,125,000				\$ 1,050,766			\$ 1,050,766 *
	<u> </u>	CVP,	-	reserved			1,123,000				- 1,050,700			1,050,700
California	4	MISCELLANEOU S PROJECTS	FOLSOM POWER FACILITY 3 units	Reserved	This project is to replace the Folsom Powerplant Inverters.	A	\$ 160,000				\$ 160,000			\$ 160,000 *
Camorina	T	CVP,		Accounted		-3	- 100,000				5 100,000			. 100,000
California	4	MISCELLANEOU S PROJECTS	FOLSOM POWER FACILITY 3 units	Reserved	Replace Folsom Powerplant Station Service three Batteries	В	s 150.000				\$ 150,000			\$ 150,000 *
Camolilla	<b>-</b>	1001010		reserveu		נו	J 130,000	1			150,000			y 150,000 ·

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Appendix

										Fundir	g Categories*			
		1	l .	I.m. a 1/	T	1 an an	1	D 1 c	Appropriated			Non-Federal Financia	g	
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total Costs	Reclamation Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Yea MR&R Total
		CVP, MISCELLANEOU	FOLSOM POWER FACILITY		Perform all the structural and non-structural seismic retrofits and improvements recommended in the Folsom Powerplant Seismic Evaluation of Structural and Nonstructural Components report	1								
California	4	S PROJECTS KLAMATH	3 units N CANAL AREA	Reserved	dated June 2015.	С	\$ 100,000	\$ 100,000						\$ 100,
California	4	PROJECT	EXTENSIONS	Transferred	Rehab N-Canal Radial Gates	E	\$ 100,000						\$ 100,000	\$ 100
California	4	NEWLANDS PROJECT	LAKE TAHOE DAM and RESERVOIR	Reserved	Replace Lake Tahoe Dam	В	\$ 15,000,000	\$ 15,000,000						\$ 15,000
Camornia	4	PALO VERDE		Reserved	Heavy rehabilitation of a 0.63 mile section of Route 0423-	Б	3 13,000,000	\$ 13,000,000						\$ 15,000
California	4	DIVERSION PROJECT	California Levee - Yuma County (Lower Levee)	Reserved	3341BZ: Blythe - River Mile 172 Access Road Parker Arizona B - Aha Khan Backwater	C	\$ 282,300	\$ 282,300						\$ 282
Camonna	7	PALO VERDE DIVERSION	California Levee - Yuma	Reserved	Heavy rehabilitation of a 0.98 mile section of Route 0423-2805: Blythe - Upper Levee Parker Division - Arizona from mile post	Ü	3 202,300	3 202,300						9 202
California	4	PROJECT	County (Lower Levee)	Reserved	19.21 to 20.19.	С	\$ 156,800	\$ 156,800						\$ 156
California	4	TRUCKEE STORAGE PROJECT	BOCA DAM and RESERVOIR	Transferred	The dam safety issues at Boca Dam include the potential deformation of the dam or dike resulting in failure or failure along the spillway control structure during an earthquake.	A	\$ 28,337,000		\$ 746,977					\$ 746
California	4	WASHOE PROJECT	PROSSER CREEK DAM and RESERVOIR	Reserved	FLTP - Prosser Creek Dam Road Paving Project	D	\$ 750,000		\$ /40,977	\$ 750,000				\$ 750.
		WASHOE	PROSSER CREEK DAM and							\$ 750,000				
California	4	PROJECT	RESERVOIR	Reserved	Replace Rip-Rap on hairpin on Prosser Outlet works Road.  Remove the debris located within the spillway stilling basin and	D	\$ 150,000	\$ 150,000						\$ 150
California	4	WASHOE PROJECT WASHOE	PROSSER CREEK DAM and RESERVOIR STAMPEDE DAM and	Reserved	clear accumulated sediments from the under drain outfalls. 2011 2-A	D	\$ 115,000	\$ 115,000						\$ 115
California	4	PROJECT	RESERVOIR and DIKE	Reserved	Sandblast and recoat outlet works pipe and penstock	С	\$ 850,000	\$ 850,000						\$ 850
California	4	WASHOE PROJECT	STAMPEDE DAM and RESERVOIR and DIKE	Reserved	Clean and repaint the damaged area of coal tar enamel lining located in the outlet works tunnel house	С	\$ 100,000	\$ 100,000						\$ 100
					Clean and repaint the damaged area of coal tar enamel lining located just downstream of the concrete to steel transition within	1								
California	4	WASHOE PROJECT	STAMPEDE DAM and RESERVOIR and DIKE	Reserved	the outlet pipe to prevent any metal loss due to corrosion damage.	E	\$ 50,000	s 50,000						\$ 50
			STAMPEDE POWER		Plans and Specification, procurement and construction oversite									
California	4	WASHOE PROJECT	FACILITY 2 units	Reserved	for mechanical governors, turbine runner cavitation repairs, spiral case and draft tube coatings and spot repairs.	D	S 1,900,000	s 1.740,000						\$ 1,740
					Plans and Specification, procurement and construction oversite for the replace of the exciters, consolidated UPS system,		, ,	, , , , , , ,						
California	4	WASHOE PROJECT	STAMPEDE POWER FACILITY 2 units	Reserved	protection relays, electrical instrumentation equipment and interface components Stampede Power Plant Units 1 and 2	С	\$ 1,260,000	\$ 1,000,000						\$ 1,000
		CVP.												
California	6		FOLSOM DAM VEHICLE STORAGE	Reserved	Purchase of a bullozer to clear and grade roads and create fire breaks along Reclamation property lines.	В	\$ 257.615	\$ 257.615						\$ 257
Cumomu			DIOI: IOD	reserved	Purchase of an Excavator for the CCAO Maintenance Team. An		237,013	257,015						237
		CVP, MISCELLANEOU	FOLSOM DAM VEHICLE		excavator would be used to clean ditches along the Folsom South Canal; move, load and place rocks and K-Rails, dig									
California	6	S PROJECTS	STORAGE	Reserved	trenches and accomplish multiple other tasks.	D	\$ 217,842	\$ 217,842						\$ 217
		CVP.			Purchase of a Tractor for the CCAO Maintenance Team. Tractor with attachments would be used for vegetation control along									
			FOLSOM DAM VEHICLE		Folsom South Canal, at CCAO grounds and Dikes. Attachments	_								
California	6	S PROJECTS	STORAGE	Reserved	to the tractor would also allow for digging and trenching.  Purchase of a Dump Truck for CCAO Maintenance Team.	D	\$ 190,000	\$ 190,000						\$ 190
					Current Dump Truck will not be usable due to stricter State of									
		CVP,			California Air Quality Standards. Without a new Dump Truck, the Civil Maintenance Team will not be able to transport heavy									
California	4		FOLSOM DAM VEHICLE	Dagamiad	equipment, dirt, rocks and debris more than 1,000 miles per	D	\$ 135,472	\$ 135,472						\$ 135
		S PROJECTS	STORAGE	Reserved	year. Design, Procure and Install Backup Power Generators for	В		o 135,472						
California	6	OTHER CVP,	OTHER	Reserved	Remote Communication Sites	A	\$ 200,000	<del>                                     </del>				\$ 200,000		\$ 200
C-life :		MISCELLANEOU S PROJECTS	CONTRA COSTA CANAL	Transferred	Install a dahris handling system -+ sk - Dk Clk E 1		e 10.400.000	s 675,716					\$ 2.027.148	
California	7	CVP,	CONTRA COSTA CANAL	1 ransterred	Install a debris handling system at the Rock Slough fish screen Repair concrete canal lining where buckled at both sides of	A	\$ 10,400,000	\$ 675,716					s 2,027,148	\$ 2,702
California	7	MISCELLANEOU S PROJECTS	CONTRA COSTA CANAL	Transferred	canal at MP 14.9. Place compacted backfill at voids behind the canal walls at the buckled areas.	A	\$ 750,000						\$ 750,000	\$ 750
Camornia		CVP,	COLUMN COSTA CANAL	riansicired		Α	/30,000					İ	y /30,000	y /30
California	7	MISCELLANEOU S PROJECTS	CONTRA COSTA CANAL	Transferred	Repair voids and the buckled concrete panels at MP 21-82. Include the longitudinal cracks at this location.	A	\$ 750,000						\$ 750,000	\$ 750
	<i>'</i>	CVP,			Clean and coat all structurally acceptable unprotected steel such		, , , , , , , , , , , , , , , , , , , ,						. ,,,,,,,,,,	. 750
California	7	MISCELLANEOU S PROJECTS	CONTRA COSTA CANAL	Transferred	as slide gate, slide gate brackets, and embedded angle iron at PP2 afterbay and replace steel that is not salvageable	D	\$ 110,000						\$ 110,000	\$ 110
		CVP, MISCELLANEOU			Replace trashracks at PP3 Unit 3 and PP4 Unit 2 due to									·
California	7	S PROJECTS	CONTRA COSTA CANAL		excessive corrosive material loss (2007-2-G)	D	\$ 100,000						\$ 100,000	\$ 100

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tepair the asphalt curb and road at the Siphon at MP 13+34

CVP, MISCELLANEOU

CONTRA COSTA CANAL

										Fundi	g Categories*			
				Transferred /	T	MR&R	ı	Reclamation	Appropriated			Non-Federal Financia	ng I	1
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		CVP,												
California	7	MISCELLANEOU S PROJECTS	CONTRA COSTA CANAL	Transferred	Remove trees encroaching on the right side concrete canal lining.	D	\$ 15,000						\$ 15,000	\$ 15,000 *
Camorina	,	COLO RVR	CONTRA COSTA CANAL	Hansierred	anning.	ь	3 15,000						3 13,000	3 15,000
		FRON WORK &	River Front /Levee Sys - Miscl											
California	8	LEVEE SYS COLO RVR	Mohave County	Reserved	Topock South Dike Outlet Structure Replacement Heavy rehabilitation of a 0.97 mile section and reconstruction of	C	\$ 1,500,000	\$ 1,500,000						\$ 1,500,000 *
		FRON WORK &	River Front /Levee Sys - Miscl		a 0.05 mile section of Route 0423-3327 AZ: Blythe - River Mile									
California	8	LEVEE SYS	Riverside County	Reserved	165 Bankline California from mile post 2.22 to 3.24.	C	\$ 167,700	\$ 167,700						\$ 167,700 *
California		PARKER-DAVIS PROJECT	Parker Dam Powerplant Operations	Reserved	C . D . ATL . D . D . L	С	\$ 1,500,000				\$ 1,500,000			\$ 1,500,000 *
California	- 8		Parker Dam Powerplant	Reserved	Generator Rotor & Thrust Bearing Rehab	C	\$ 1,500,000				\$ 1,500,000			\$ 1,500,000
California	8	PROJECT	Operations	Reserved	Unit Control PLC Replacement	C	\$ 560,000				\$ 560,000			\$ 560,000 *
	_		Parker Dam Powerplant			_								
California	- 8	PROJECT PARKER-DAVIS	Operations Parker Dam Powerplant	Reserved	Test Powerplant Ground Grid	С	\$ 300,000				\$ 300,000			\$ 300,000 *
California	8	PROJECT	Operations	Reserved	Replace 100 Ton Hook Crane Control VFD	D	\$ 45,000				\$ 45,000			\$ 45,000 *
		PARKER-DAVIS												
California	8	PROJECT	(Bldgs. listed separately) PD Bldgs. and Grounds	Reserved	Parker Dam Road Rehabilitation (Including parking lots)	C	\$ 1,390,000				\$ 1,390,000			\$ 1,390,000 *
California	8	PARKER-DAVIS PROJECT	(Bldgs. listed separately)	Reserved	Paint warehouse and machine shop.	D	\$ 170,000				\$ 170,000			\$ 170,000 *
Cumomu	Ü	PARKER-DAVIS	(Diags. fisted separately)	reserved	and waterloade and machine shop.		3 170,000				3 170,000			170,000
California	8	PROJECT	PD Plant Maintenance	Reserved	Domestic Water System Replacement	D	\$ 300,000				\$ 300,000		ļ	\$ 300,000 *
California		PARKER-DAVIS PROJECT	PD Plant Maintenance	Reserved	Maintenance Complex Communication Line Replacement	D	s 300,000				\$ 300,000			\$ 300,000 *
Camomia		PARKER-DAVIS	rD riant Maintenance	Reserved	Maintenance Complex Communication Line Replacement	D	\$ 300,000				\$ 300,000			\$ 300,000
California	8	PROJECT	PD Plant Maintenance	Reserved	Carbon Collection	D	\$ 200,000				\$ 200,000			\$ 200,000 *
	_	PARKER-DAVIS				_								
California	- 8	PROJECT CVP.	PD Plant Maintenance BOR-TRACY FISH	Reserved	Powerhouse Window Replacement	E	\$ 170,000				\$ 170,000			\$ 170,000 *
		MISCELLANEOU												
California	11	S PROJECTS	STORAGE	Reserved	Equipment Storage Building Roof Replacement	Е	\$ 150,000	\$ 150,000						\$ 150,000 *
		CVP,	BOR-TRACY FISH											
California	11	MISCELLANEOU S PROJECTS	FACILITY EQUIP. STORAGE	Reserved	Equipment Storage Building Siding Replacement	E	\$ 150,000			\$ 150,000				\$ 150,000 *
Cumomu	••	CVP,	BOR-TRACY FISH	reserved	Equipment Strings Duntaing Staining Replacement	-	3 130,000			<b>3</b> 130,000				130,000
		MISCELLANEOU												
California	11	S PROJECTS CVP.	STORAGE BOR-TRACY FISH	Reserved	Refurbish the water treatment system serving the O&M complex	Е	\$ 20,000	\$ 20,000						\$ 20,000 *
		MISCELLANEOU			Demo existing buildings and construct a new integrated									
California	11	S PROJECTS	(BYRON)	Reserved	operations and maintenance facility.	D	\$ 1,500,000			\$ 1,500,000				\$ 1,500,000 *
		CVP,	BOR-TRACY FISH											
California	11	MISCELLANEOU S PROJECTS	FACILITY MAIN OFFICE (BYRON)	Reserved	Replace the piling at the facility boat dock	В	s 500.000	s 500.000						s 500,000 *
Camoina	•••	CVP,	BOR-TRACY FISH	reserved	replace the plang at the meanly cour dock		300,000	500,000						300,000
		MISCELLANEOU												
California	11	S PROJECTS CVP.	(BYRON) BOR-TRACY FISH	Reserved	O&M Building siding replacement	E	\$ 150,000			\$ 150,000				\$ 150,000 *
		CVP, MISCELLANEOU												
California	11	S PROJECTS	(BYRON)	Reserved	Repair the facility boat ramp	C	\$ 150,000	\$ 150,000						\$ 150,000 *
		CVP, MISCELLANEOU												
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	DMC Subsidence Mitigation Project	A	\$ 125,250,000	\$ 125,250,000						\$ 125,250,000 *
Cumomu	•••	CVP,	DEETH MEMBORI CHARLE	Transferred	Bite Subsidence imagation Project		3 123,230,000	123,230,000						123,230,000
		MISCELLANEOU												
California	11	S PROJECTS CVP.	DELTA MENDOTA CANAL	Transferred	Jones Pumping Plant Unit Rewinds (Rotor & Stator) Units 1-5	A	\$ 31,100,000	\$ 10,550,000					\$ 10,550,000	\$ 21,100,000
		MISCELLANEOU	J											
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	JPP Excitation Cabinet and Control Panel Refurbishment	C	\$ 6,091,000	\$ 6,003,000						\$ 6,003,000
		CVP, MISCELLANEOU			Carting Coming CWDD Davidson Davidson on (F2010005)								1	
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Station Service SWBD Breaker Replacement (E2019005) Includes bypassed disconnect switch replacement.	С	\$ 5,250,000	\$ 5,250,000					I	\$ 5,250,000 *
		CVP,			//	<u> </u>	2,220,000	7,223,300					1	-,,
G UG .		MISCELLANEOU	DELTA MENEROM CONT.	m a ·	D. F. LO . D. L. L. P	-								
California	11	S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Radial Gate Rehabilitation	D	\$ 4,379,000	1	1		<del>                                     </del>		\$ 4,379,000	\$ 4,379,000
1		MISCELLANEOU	ı İ										I	
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	Canal Modification due to subsidence.	A	\$ 4,280,000	\$ 2,944,000					\$ 736,000	\$ 3,680,000
		CVP, MISCELLANEOU											1	
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	Replace DMC Althea Ave Bridge	С	\$ 3,045,000	\$ 3,045,000					1	\$ 3,045,000
		CVP,			Ĭ		,							
0.116		MISCELLANEOU	DELTA MENDOTA GUILL	m c :	D. I. DMCD. II.A. D. I	C	\$ 3,045,000	\$ 3.045.000					1	\$ 3,045,000
California	11	S PROJECTS CVP.	DELTA MENDOTA CANAL	Transferred	Replace DMC Russell Ave Bridge	C	\$ 3,045,000	\$ 3,045,000			-		<b>+</b>	\$ 3,045,000
1		MISCELLANEOU	ı İ										I	
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	Dredge JPP Intake Channel	D	\$ 2,800,000						\$ 2,800,000	\$ 2,800,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			
		1		Transformed /	I	MR&R	ı	Reclamation	Appropriated			Non-Federal Financii	ıg	
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
California	11	CVP, MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Establish a program to replace or repair the Coal Tar Enamel lining of the steel section in discharge pipes No.1 and 3.	Е	\$ 1,500,000						\$ 1,500,000	\$ 1,500,000 *
California	- 11	CVP, MISCELLANEOU	JELIA MENDOTA CANAL	Transferred	lining of the steel section in discharge pipes No.1 and 3.	Е	\$ 1,500,000						\$ 1,500,000	\$ 1,500,000
California	11	S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Install 2 additional pumps to improve facility capacity.	В	\$ 1,500,000	\$ 1,360,000						\$ 1,360,000
California	11	MISCELLANEOU S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Concrete Lining Repair MP 92 to MP97	С	\$ 1,148,000						\$ 1,148,000	\$ 1,148,000
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Timber Farm Bridge Rehabilitation	D	\$ 1,071,000						\$ 1,071,000	\$ 1,071,000
California	11	CVP, MISCELLANEOU S PROJECTS	J DELTA MENDOTA CANAL	Transferred	DMC Road Reconstruction	E	\$ 868,000						\$ 868,000	\$ 868,000
		CVP, MISCELLANEOU	ī			_								
California	11	S PROJECTS CVP, MISCELLANEOU	DELTA MENDOTA CANAL	Transferred	Impeller Rehabilitation	D	\$ 637,000						\$ 637,000	\$ 637,000 *
California	11	S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Wasteway Capacity Restoration	Е	\$ 580,000						\$ 580,000	\$ 580,000
California	11	MISCELLANEOU S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Motor Rehabilitation	Е	\$ 523,000						\$ 523,000	\$ 523,000 *
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Thrust Bearing Replacement	D	\$ 500,000						\$ 500,000	\$ 500,000 *
California	11	CVP, MISCELLANEOU S PROJECTS	J DELTA MENDOTA CANAL	Transferred	Turnout Gate and Trash rack Replacements	E	\$ 469,000						\$ 469,000	\$ 469,000
California	11	CVP, MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Unit Breaker Upgrade / replacement	E	\$ 404,000						\$ 404,000	\$ 404,000
California	11	CVP, MISCELLANEOU S PROJECTS	J DELTA MENDOTA CANAL	Transferred	Check Structure Mechanical Equipment Rehabilitation	D	\$ 400,000						\$ 400,000	\$ 400,000
		CVP, MISCELLANEOU	I											
California	11	S PROJECTS CVP, MISCELLANEOU	DELTA MENDOTA CANAL	Transferred	HVAC System Rehabilitation/Replacement	D	\$ 400,000						\$ 400,000	\$ 400,000
California	11	S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Plant SCADA system upgrade	E	\$ 354,000						\$ 354,000	\$ 354,000 *
California	11	MISCELLANEOU S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Penstock Manifold Interior Coating Rehabilitation	С	\$ 352,000						\$ 352,000	\$ 352,000 *
California	11	MISCELLANEOU S PROJECTS CVP.	DELTA MENDOTA CANAL	Transferred	Canal Embankment Erosion Protection	В	\$ 350,000						\$ 350,000	\$ 350,000
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Rehabilitate Coating on Pump Casings	D	\$ 306,000						\$ 306,000	\$ 306,000 *
California	11	CVP, MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Motor Control Center Upgrade	E	\$ 303,000						\$ 303,000	\$ 303,000
California	11	CVP, MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	100T Gantry Crane Rehabilitation	С	\$ 300,000						\$ 300,000	\$ 300,000 *
		CVP, MISCELLANEOU	ı											
California	11	S PROJECTS CVP, MISCELLANEOU	DELTA MENDOTA CANAL	Transferred	Intake Channel Embankment Stabilization	В	\$ 300,000						\$ 300,000	\$ 300,000
California	11	S PROJECTS CVP, MISCELLANEOU	DELTA MENDOTA CANAL	Transferred	Trash Rack Rehabilitation / Replacement	D	\$ 300,000						\$ 300,000	\$ 300,000 *
California	11	S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Trashrack Cleaner Rehabilitation	D	\$ 300,000						\$ 300,000	\$ 300,000
California	11	MISCELLANEOU S PROJECTS CVP.	DELTA MENDOTA CANAL	Transferred	Wear Ring Replacement	D	\$ 300,000						\$ 300,000	\$ 300,000
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Plant Flowmetering System Rehabilitation	D	\$ 250,000						\$ 250,000	\$ 250,000 *
California	11	CVP, MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Stoplog Rehabilitation	D	\$ 250,000						\$ 250,000	\$ 250,000
California	11	CVP, MISCELLANEOU S PROJECTS	J DELTA MENDOTA CANAL	Transferred	Unit Motor Air Cooler Rehabilitation	D	\$ 250,000						\$ 250,000	\$ 250,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			
			1	m a 1/	T	Lanan		Reclamation	Appropriated			Non-Federal Financia	ng	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		CVP,												
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Flowmeter Improvement	E	s 235,000						s 235,000	s 235,000 *
Camorina	- 11	CVP,	DELTA MENDOTA CANAL	Transierred	1 towneet improvement	L	9 255,000						\$ 255,000	\$ 255,000
		MISCELLANEOU	DEL M. MONTO O. C. C. C.			_								
California	11	S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Penstock Cathodic Protection system Replacement	E	\$ 206,000	-					\$ 206,000	\$ 206,000 *
		MISCELLANEOU												
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	SCADA & COMM System Replacement / Improvement	С	\$ 206,000						\$ 206,000	\$ 206,000 *
		CVP, MISCELLANEOU												
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	UPS Battery Replacement	D	\$ 206,000						\$ 206,000	\$ 206,000 *
		CVP, MISCELLANEOU												
California	11		DELTA MENDOTA CANAL	Transferred	Pump Rehabilitation	F	\$ 202,000						\$ 202,000	\$ 202,000 *
		CVP,												
C-lifi-	11	MISCELLANEOU S PROJECTS		Т	TIVAC Contain Dalah Historian / Danis annuar	E	\$ 176,000						\$ 176,000	\$ 176,000 *
California	- 11	CVP,	DELTA MENDOTA CANAL	Transferred	HVAC System Rehabilitation / Replacement	ъ	3 176,000						\$ 176,000	\$ 176,000
		MISCELLANEOU	ī											
California	11	S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	Plant Security System Upgrades	D	\$ 176,000						\$ 176,000	\$ 176,000 *
		MISCELLANEOU	r											
California	11		DELTA MENDOTA CANAL	Transferred	DMC Turnout Flow Measurement Improvements	E	\$ 160,000	1				ļ	\$ 160,000	\$ 160,000
		CVP, MISCELLANEOU												
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	Pump Scroll Case Rehabilitation	D	\$ 159,000						\$ 159,000	\$ 159,000 *
		CVP,												
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	CA Turnout Slide Gate Rehabilitation / Replacement	E	\$ 150,000						\$ 150,000	\$ 150,000 *
Camorina	11	CVP,	DELTA MENDOTA CANAL	Transferred	CA Turnout Stide Gate Reliabilitation / Replacement	L	3 130,000	*					3 130,000	3 150,000
		MISCELLANEOU			Clean and recoat the gates at check structure 2 and install									
California	11	S PROJECTS CVP.	DELTA MENDOTA CANAL	Transferred	cathodic protection.	С	\$ 150,000	-					\$ 150,000	\$ 150,000 *
		MISCELLANEOU												
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	Plant Annunciator Upgrade/ Replacement	E	\$ 150,000						\$ 150,000	\$ 150,000 *
		CVP, MISCELLANEOU												
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	Cooling WaterSystem Strainer Replacement	D	\$ 125,000						\$ 125,000	\$ 125,000 *
		CVP,												
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Plant Annunciator Upgrades	D	\$ 105,000						s 105,000	\$ 105,000 *
		CVP,												
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Cooling Water Line Replacement	D	\$ 100,000						\$ 100,000	\$ 100,000 *
Camornia	- 11	CVP,	DELTA MENDOTA CANAL	Transferred	Cooling water Line Replacement	Б	\$ 100,000	-					\$ 100,000	\$ 100,000
		MISCELLANEOU												
California	11	S PROJECTS CVP.	DELTA MENDOTA CANAL	Transferred	Plant 42" & 72" Valve Rehabilitation / Replacement	E	\$ 100,000						\$ 100,000	\$ 100,000 *
		MISCELLANEOU	ı											
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	Sandfilter System Replacement	D	\$ 100,000						\$ 100,000	\$ 100,000 *
		CVP, MISCELLANEOU												
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	Siphon Breaker Valve Control System Rehabilitation	D	\$ 100,000						\$ 100,000	\$ 100,000 *
		CVP,												
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	Stabilize the embankment along both sides of the Firebaugh Wasteway	С	\$ 100,000						\$ 100,000	\$ 100,000 *
Camornia	**	CVP,		ransiered			- 100,000	1				1	- 100,000	100,000
		MISCELLANEOU	DEL	m -	Stabilize the portion of the embankment between MP 98.62 and			1				ĺ		
California	11	S PROJECTS CVP,	DELTA MENDOTA CANAL	Transferred	MP 116.50 along the left side of the DMC.	В	\$ 100,000	+				-	\$ 100,000	\$ 100,000 *
		MISCELLANEOU						1				ĺ		
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	Unit Protection system Upgrade	E	\$ 100,000	<b></b>					\$ 100,000	\$ 100,000 *
		CVP, MISCELLANEOU	,		Repair buckled liner on the right bank at MP 17.84 and broken/damaged liner panels on the left and right banks,			1				1		
California	11	S PROJECTS	DELTA MENDOTA CANAL	Transferred	approximately between MP93.00 and MP 98.62.	A	\$ 75,000	<u> </u>					\$ 65,000	\$ 65,000 *
1		CVP,			Evaluate the extent of damage to the liner and bridge									
California	11	MISCELLANEOU S PROJECTS	DELTA MENDOTA CANAL	Transferred	substructure underneath the farm bridge at MP 92.73 on the right bank and make necessary repairs.	A	\$ 60,000	d.				ĺ	\$ 50,000	\$ 50,000 *
	<u> </u>	CVP,		noned	g			1				İ	. 20,000	. 50,000
C-life :	,,,		Tracy Fish Facility Bio.	Dec. 1	Dislam Duilding Danf Danlass		e 150.000	.1		e 150.000		ĺ		6 150.000
California	11	S PROJECTS CVP.	Building	Reserved	Biology Building Roof Replacement	E	\$ 150,000	<del>'                                       </del>	1	\$ 150,000		<del> </del>	1	\$ 150,000 *
1		MISCELLANEOU	Tracy Fish Facility Bio.					1				ĺ		
California	11	S PROJECTS	Building	Reserved	Biology Building Siding Replacement	E	\$ 150,000			\$ 150,000				\$ 150,000 *
		CVP, MISCELLANEOU	TRACY FISH PROTECTION		Construct a new alternative channel and testing facility for fish			1				ĺ		
California	11	S PROJECTS	FACIL (Holding Tank)	Reserved	diversion technology development	С	\$ 120,000,000	\$ 120,000,000						\$ 120,000,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

											Fundir	g Categories*	V P 1 171 1		
		- 1			Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financia	ng I	
State	Congressio District		Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		(	CVP,												
California	11		MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Replace the aging primary louver bridge and upgrade the primary louver system	A	\$ 100,000,000	\$ 100,000,000						\$ 100,000,000 *
Camornia	11		CVP,	FACIL (Holding Talik)	Reserved	primary louver system	A	3 100,000,000	3 100,000,000						3 100,000,000
				TRACY FISH PROTECTION		Design and construct improvements to the hyacinth removal									
California	11			FACIL (Holding Tank)	Reserved	system.	A	\$ 8,500,000	\$ 7,904,000						\$ 7,904,000
			CVP, MISCELLANEOU	TRACY FISH PROTECTION		Construct permanent drainage and disposal facilities for aquatic									
California	11			FACIL (Holding Tank)	Reserved	vegetation debris.	С	\$ 3,800,000	\$ 3,800,000						\$ 3,800,000 *
			CVP,												
California	11	l.	MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Replacement of Primary Louver Guide Rods at the Tracy Fish Collection Facility.	A	\$ 3,500,000	\$ 3,200,000						\$ 3,200,000 *
Camornia	11	- 6	CVP,	racil (noiding rank)	Reserved	Collection Facility.	A	\$ 3,300,000	\$ 3,200,000						\$ 5,200,000
		N		TRACY FISH PROTECTION		Replace the fish release structure at Brannon Island (Rio Vista									
California	11	5		FACIL (Holding Tank)	Reserved	Fish Release Site)	В	\$ 3,100,000	\$ 3,000,000						\$ 3,000,000
			CVP, MISCELLANEOU	TRACY FISH PROTECTION											
California	11			FACIL (Holding Tank)	Reserved	Install computer control system for Velocity Control Pumps	С	\$ 3,000,000	\$ 2,950,000						\$ 2,950,000 *
			CVP,			Replace main distribution electrical cabinet (not to code), install									
C-1:6	11		MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Emergency Power Supply System, and replace aging underground utility conductors		\$ 2,500,000	\$ 2,250,000						\$ 2,250,000 *
California	- 11		CVP,	racit (riolung Tank)	Reserved	uniderground utility conductors	A	2,300,000	y 2,230,000			<b>-</b>	+		φ 2,230,000 *
				TRACY FISH PROTECTION											
California	11	5		FACIL (Holding Tank)	Reserved	Trash Rack Bar Grill Replacement	C	\$ 1,250,000	\$ 1,250,000						\$ 1,250,000 *
		C	CVP, MISCELLANEOU	TRACY FISH PROTECTION			1		]						
California	11		S PROJECTS	FACIL (Holding Tank)	Reserved	Rebuild the Antioch Fish Release Site	A	\$ 3,101,000	\$ 1,105,000						\$ 1,105,000
		(	CVP,	`				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,						, ,
C-life :				TRACY FISH PROTECTION	D 1	Dealest and a line at 10 of 11 10 of 20		e 1250.000	e 1 100 000						e 1 100 000
California	11		S PROJECTS CVP.	FACIL (Holding Tank)	Reserved	Replace underground piping at collection and holding facility	A	\$ 1,250,000	\$ 1,100,000						\$ 1,100,000 *
				TRACY FISH PROTECTION		Repair the existing primary channel, lifting tower, rail systems									
California	11	5		FACIL (Holding Tank)	Reserved	and abate lead coatings	A	\$ 1,050,000	\$ 1,050,000						\$ 1,050,000 *
		0	CVP,	TRACY FISH PROTECTION		Darley Lawrence and high account for illing a control									
California	11		S PROJECTS	FACIL (Holding Tank)	Reserved	Replace low pressure and high pressure facility service water connections	D	\$ 900,000	\$ 900,000						\$ 900,000 *
Cumoma			CVP,	THEID (Holding Tunk)	reserved	connections		,,,,,,,	\$ 700,000						\$ 500,000
				TRACY FISH PROTECTION											
California	11		S PROJECTS CVP.	FACIL (Holding Tank)	Reserved	Bypass Valve Replacement	С	\$ 800,000	\$ 800,000						\$ 800,000 *
				TRACY FISH PROTECTION		Modify the embedded bolt pattern to ANSI/AWWA standards									
California	11			FACIL (Holding Tank)	Reserved	and replace flapper check valves in the secondary channel.	В	\$ 600,000	\$ 600,000						\$ 600,000 *
			CVP,												
California	11			TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Repair damage and correct drainage issues on the service roads of the hyacinth spoils area.	D	\$ 600,000	\$ 600,000						\$ 600,000 *
Camonna	11		CVP,	FACIL (Holding Talik)	Reserved	or the nyacinth spons area.	ь	3 000,000	3 000,000						3 000,000
				TRACY FISH PROTECTION		Construct a CO2 predator removal system at the primary									
California	11		S PROJECTS	FACIL (Holding Tank)	Reserved	channel bypass structures	D	\$ 500,000			\$ 500,000				\$ 500,000 *
			CVP,	TRACY FISH PROTECTION		Repair trash-rack monorail structure to correct weak member design and connections that fail to meet seismic and wind									
California	11	5		FACIL (Holding Tank)	Reserved	loading design requirements.	A	\$ 1,900,000	\$ 465,000			<u> </u>	<u> </u>	<u> </u>	\$ 465,000
			CVP,												
California	11			TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Construct a gantry style hoist system for the secondary channel hydrolox systems	D	\$ 350,000			\$ 350,000				\$ 350,000 *
Camomia	- 11		CVP,	racit (riolung Tank)	Reserved	mydroiox systems	ע	330,000	<del> </del>		000,000 ب	<b>-</b>	<del> </del>		φ 330,000 *
		N	MISCELLANEOU	TRACY FISH PROTECTION			1		]						
California	11		S PROJECTS	FACIL (Holding Tank)	Reserved	Construct a secondary channel shade structure	С	\$ 350,000			\$ 350,000				\$ 350,000 *
			CVP, MISCELLANEOU	TRACY FISH PROTECTION			1		]						
California	11			FACIL (Holding Tank)	Reserved	Asphalt Resurfacing	E	\$ 300,000	\$ 300,000						\$ 300,000 *
		(	CVP,			-									
Californic	11	l.		TRACY FISH PROTECTION FACIL (Holding Tank)	Dagamad	Complete the Holding Tank Building Enclosure	D	\$ 300,000	\$ 300,000						\$ 300,000 *
California	- 11	1	CVP,	FACIL (HORING TARK)	Reserved	Modify embedded bolts to ANSI/AWWA standards, modify	ע	\$ 500,000	a 300,000				<u> </u>		\$ 500,000 *
		N	MISCELLANEOU	TRACY FISH PROTECTION		configuration to permit valve operation, and replace the									
California	11		S PROJECTS	FACIL (Holding Tank)	Reserved	secondary channel butterfly valves.	В	\$ 300,000	\$ 300,000				<b></b>		\$ 300,000 *
			CVP, MISCELLANEOU	TRACY FISH PROTECTION			1		]						
California	11	S		FACIL (Holding Tank)	Reserved	Replace Velocity Control Pumps and Motor Units (6)	D	\$ 300,000	]		\$ 300,000				\$ 300,000 *
			CVP,												
0.116		M		TRACY FISH PROTECTION	ъ.	D 1 1 11 4 1 2			]		6 160.000				
California	11	- 1	S PROJECTS CVP.	FACIL (Holding Tank)	Reserved	Replace holding tank screen units	D	\$ 160,000	1		\$ 160,000	-	+	1	\$ 160,000 *
				TRACY FISH PROTECTION		Replace and upgrade the non functional underground			]						
California	11		S PROJECTS	FACIL (Holding Tank)	Reserved	components of the site SCADA communication infrastructure.	В	\$ 150,000	\$ 150,000						\$ 150,000 *
			CVP,	TRACY FISH PROTECTION			]		]						Ι Τ
California	11			FACIL (Holding Tank)	Reserved	Replace the metal roof of the holding tank building	E	\$ 150,000			\$ 150,000				\$ 150,000 *
tilla	- 11	- 1		(Holding Talik)	ACCOUNTED	pro-pro		- 150,000			- 150,000	1	1	·	- 150,000

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										Fundin	g Categories*			]
				Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financii	ıg	
State	Congressional District	Authorized	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization	Estimated Total Costs	Excluding Dam		Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	Project CVP,		Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	rederai	rinancing	water Users	Partners	MR&R 10tal
California	11	MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Replace the metal siding of the holding tank building	E	\$ 150,000			\$ 150,000				\$ 150,000 *
Camornia	11	CVP,		Reserved	Replace the metal studig of the holding tank building	15	3 150,000			3 150,000				3 130,000
California	11	MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Replace the motor and gear units for the Traveling Fish Screen	E	\$ 130.000	\$ 130,000						\$ 130,000 *
		CVP, MISCELLANEOU	TRACY FISH PROTECTION		D.: 1									
California	11	S PROJECTS	FACIL (Holding Tank)	Reserved	Design and construct an air/O2 injection system for the holding tanks	D	\$ 75,000			\$ 75,000				\$ 75,000 *
		CVP, MISCELLANEOU	TRACY FISH PROTECTION		Construct site improvements to provide power and utilities to									
California	11	S PROJECTS	FACIL (Holding Tank)	Reserved	relocate the maintenance office trailer	E	\$ 62,000	\$ 62,000						\$ 62,000 *
		CVP, MISCELLANEOU	TRACY FISH PROTECTION											
California	11	S PROJECTS CVP.	FACIL (Holding Tank)	Reserved	Replace San Andreas water quality monitoring station.	В	\$ 850,000	\$ 60,000						\$ 60,000
		MISCELLANEOU	TRACY FISH PROTECTION											
California	11	S PROJECTS CVP,	FACIL (Holding Tank)	Reserved	Replace Staten Island water quality monitoring station.	В	\$ 850,000	\$ 59,000						\$ 59,000
California	11	MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Replace de-watering, clear well, low pressure, and spray water pump and motor units of the holding tank system.	D	\$ 45,000			\$ 30,000				\$ 30,000 *
California	11	CVP,		Keserved	pump and motor units of the holding tank system.	D	\$ 45,000			\$ 30,000				\$ 30,000 *
California	11	MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Replace Holding Tank Building Collect Valves	D	\$ 45,000	\$ 30,000				1		\$ 30,000 *
Cumomia		CVP,	` ` ` `	Treserved			15,000	30,000						30,000
California	11	MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACIL (Holding Tank)	Reserved	Repair or replace the concrete stairs and handrail that lead down to the trash conveyor.	С	\$ 5,000	\$ 5,000						\$ 5,000 *
		CVP, MISCELLANEOU	TRACY FISH PROTECTION		Repair the damaged siding at the exterior northeast corner of the									
California	11	S PROJECTS	FACIL (Holding Tank)	Reserved	Tracy Fish Collection Holding Tank Building.	С	\$ 2,000	\$ 2,000						\$ 2,000 *
		CVP, MISCELLANEOU	TRACY FISH PROTECTION		Properly anchor the safety chain on the handrail located above									
California	11	S PROJECTS	FACIL (Holding Tank)	Reserved	the southeast side of the trash conveyor	С	\$ 250	\$ 250						\$ 250 *
		CVP, MISCELLANEOU	TRACY FISH PROTECTION											
California	11	S PROJECTS CVP,	FACILITY (P and H Bldg)	Reserved	P&H Building Roofing Replacement	Е	\$ 150,000	\$ 150,000						\$ 150,000 *
		MISCELLANEOU			Design and construct an improved water treatment system for									
California	11	S PROJECTS CVP,	FACILITY (TAF)	Reserved	the Tracy Aquaculture Facility Replace the re-purposed sandblasting shelter housing the TAF	D	\$ 1,500,000	\$ 1,500,000						\$ 1,500,000 *
California	11	MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACILITY (TAF)	Reserved	with a purpose built structure meeting current ASCE load	В	\$ 1,500,000	\$ 1,500,000						\$ 1,500,000 *
Camornia	11	CVP,		Reserved		В	3 1,500,000	3 1,500,000						3 1,300,000
California	11	MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACILITY (TAF)	Reserved	Construct new intake systems for delta water and North Well water to the Tracy Aquaculture Facility.	С	\$ 1,900,000	\$ 1,172,619						\$ 1,172,619 *
		CVP, MISCELLANEOU												
California	11	S PROJECTS	FACILITY (TAF)	Reserved	Replace the metal clad roofing and siding of the TAF building	С	\$ 300,000	\$ 300,000						\$ 300,000 *
		CVP, MISCELLANEOU	TRACY FISH PROTECTION		Construct a fish protection canopy at the outdoor holding tanks									
California	11	S PROJECTS	FACILITY (TAF)	Reserved	for the Aquaculture Facility	D	\$ 50,000	\$ 50,000						\$ 50,000 *
		CVP, MISCELLANEOU			Construct new tank support platforms for the Tracy Aquaculture									
California	11	S PROJECTS CVP,	FACILITY (TAF)	Reserved	Facility	D	\$ 25,000			\$ 25,000				\$ 25,000 *
		MISCELLANEOU			Modify the water process alarm and indicating equipment to	_								
California	11	S PROJECTS CVP,	FACILITY (TAF)	Reserved	permit real time reading of flow, temperature, and tank level.	В	\$ 25,000	\$ 25,000						\$ 25,000 *
California	11	MISCELLANEOU S PROJECTS	TRACY FISH PROTECTION FACILITY/Paint Shed	Reserved	Paint Shed Replacement	E	\$ 25,000			\$ 25,000				\$ 25,000 *
Camonia	11	CVP,	PACILIT I/Failit Siled	Reserved	rant Sneu Replacement	- 1	3 23,000			3 23,000				3 23,000
California	11	MISCELLANEOU S PROJECTS	Tracy Switchyard	Transferred	Station Service Backup Battery System Replacement	D	\$ 270,000						\$ 270,000	\$ 270,000 *
		CVP, MISCELLANEOU					.,						,,,,,	
California	11	S PROJECTS	Tracy Switchyard	Transferred	Protective Relay Replacement	D	\$ 250,000						\$ 250,000	\$ 250,000 *
		CVP, MISCELLANEOU												
California	11	S PROJECTS	Tracy Switchyard	Transferred	Facility Switchyard Improvements	E	\$ 200,000					ļ	\$ 200,000	\$ 200,000 *
		CVP, MISCELLANEOU												
California	11	S PROJECTS CVP, SAN LUIS	Tracy Switchyard	Transferred	Current and Potential Transformer Replacement	D	\$ 135,000					<del>                                     </del>	\$ 135,000	\$ 135,000 *
California	11	UNIT	COALINGA CANAL	Transferred	Repair/replace the canals concrete lining.	В	\$ 275,000						\$ 275,000	\$ 275,000 *
		CVP, SAN LUIS			Install a portable containment for the oil coming from the Coalinga Canal turnouts at turnout #2, #3, #4, #8, and #9 that									
California	11	UNIT	COALINGA CANAL	Transferred	have the pumping plants with traveling screen trashracks.	E	\$ 20,000						\$ 20,000	\$ 20,000 *
California	11	CVP, SAN LUIS UNIT	COALINGA CANAL	Transferred	Replace canal safety ladders at MP 3.23, MP 12.97, and 14.36.	С	\$ 10,000					<u> </u>	\$ 10,000	\$ 10,000 *

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										Fundin	g Categories*			
	1	1	ı	T	ı	MR&R		Reclamation	Appropriated			Non-Federal Financia	ng	ļ
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
California	11	CVP, SAN LUIS UNIT	COALINGA CANAL	Transferred	Replace the missing electrical splice box cover going to a high voltage panel at PV-4s pumping plant at the Coalinga Canal on canal left.	D	\$ 2,000						\$ 2,000	\$ 2.0
		DELTA	SLDM WA ADMIN/ELECTRIC SHOP				,,,,,							
alifornia alifornia	11	DIVISION, CVP DELTA DIVISION, CVP	TRACY Tracy Office	Transferred Reserved	O&M Complex Pavement Rehabilitation / Replacement  Admin Office Window Replacement	E D	\$ 250,000 \$ 1,500,000						\$ 250,000	\$ 250,0 \$ 1,500,0
alifornia	11	DELTA DIVISION, CVP	Tracy Office	Reserved	Administrative Office Interior Improvements	D	\$ 900,000							\$ 800,0
California	11	DELTA DIVISION, CVP	Tracy Office	Reserved	2038 Admin Office Roof Replacement	D	\$ 200,000	\$ 200,000						\$ 200,0
		DELTA			Retrofit structural framing to support second floor storage in									
California	11	DIVISION, CVP CVP, SAN FELIPE	Tracy Water Quality Building	Reserved	Water Quality Building above electrical offices.	D	\$ 25,000	\$ 25,000						\$ 25,0
California	17	DIVISION CVP, SAN	SAN JUSTO DAM	Transferred	Toe Drains Replacement.	D	\$ 5,000,000	\$ 5,000,000						\$ 5,000,0
California	17	FELIPE DIVISION	SAN JUSTO DAM	Transferred	Relocation of road off of the crest of San Justo Dike	В	\$ 3,000,000	\$ 3,000,000						\$ 3,000,0
		CVP, SAN FELIPE			Clean, repair, and replace as necessary corroded metalwork and connections in the lower portion of the outlet works gate shaft and chamber near the concrete surfaces, including the ladder									
California	17	DIVISION CVP, SAN	SAN JUSTO DAM	Transferred	supports, ventilation pipe, and pipe supports at San Justo Dam.	D	\$ 20,000					\$ 20,000		\$ 20,0
California	17	FELIPE DIVISION CVP.	SAN JUSTO DAM	Transferred	Repair or replace bypass piping and recoat the bypass piping in the outlet works slide gate chamber at San Justo Dam.	D	\$ 20,000					\$ 20,000		\$ 20,0
California	18	MISCELLANEOU S PROJECTS	COLUMBIA MOWRY RELIFT STATION	Reserved	Replace 6 pumps at re-lift station	С	\$ 360,000	\$ 360,000						\$ 360,0
California	18	CVP, MISCELLANEOU S PROJECTS	San Luis Recreation Facility	Transferred	Repave roads of the San Luis Recreation Facility	В	\$ 16,000,000			\$ 7,200,000			\$ 8,800,000	\$ 16,000,0
amorna	16	CVP, SAN FELIPE	San Luis Recreation Facility	Transferred	Replace the rotted plywood sheathing and resurface the built-up	В	\$ 16,000,000			\$ 7,200,000			\$ 8,800,000	3 16,000,0
California	18	DIVISION CVP, SAN	COYOTE PUMPING PLANT	Transferred	bitumen roofing material at the Coyote Pumping Plant System.  Re-anchor all the fence post around the switchyard into concrete	С	\$ 20,000						\$ 20,000	\$ 20,0
California	18	FELIPE DIVISION CVP. SAN	COYOTE PUMPING PLANT	Transferred	and replace corroded or damaged posts as necessary at the Coyote Pumping Plant System.	D	\$ 10,000						\$ 10,000	\$ 10,0
California	18	FELIPE DIVISION CVP, SAN	COYOTE PUMPING PLANT	Transferred	Clean and recoat the areas of center conduit in the Isolation Valve Structure on the Coyote Pumping Plant System.	D	\$ 5,000						\$ 5,000	\$ 5,0
California	18	FELIPE DIVISION	COYOTE PUMPING PLANT	Transferred	Repair or mitigate leak of the center conduit in the Isolation Valve Structure on the Coyote Pumping Plant System.	D	\$ 5,000						\$ 5,000	\$ 5,0
		CVP, SAN FELIPE	PACHECO PUMPING		It is recommended that the shotcrete slope protection system at SCC Vault #5 be removed and replaced with an alternate		.,							
California	18	DIVISION  CVP, SAN LUIS	PLANT  B.F. SISK SAN LUIS DAM	Transferred	system.  The dam safety issues at B.F. Sisk Dam are associated with the potential deformation or cracking of the dam during an earthquake resulting in overtopping or erosion failure of the dam. The proposed modification sinclude construction of a downstream foundation key trench and berm in select locations, and a two stage filter. This modification will be the largest in the history of the ISCA program and are expected to last through FV.	Е	\$ 150,000				CUI		\$ 150,000	\$ 150,0
California	18	UNIT CVP, SAN LUIS	and RESERVOIR B.F. SISK SAN LUIS DAM	Transferred	2030.	A	\$ 1,100,000,000		1		l	I	l	\$ 1,068,826,0
California	18	UNIT CVP, SAN LUIS	and RESERVOIR B.F. SISK SAN LUIS DAM	Transferred	Fire Protection System Replacement at Romero Visitors Center Replace Underground Domestic Water Line at Romero Visitors	В	\$ 1,802,000						\$ 991,000	,,,,,
California	18	UNIT CVP, SAN LUIS UNIT	and RESERVOIR B.F. SISK SAN LUIS DAM and RESERVOIR	Transferred	Center Repair damaged toe drain pipe and modify configuration to	С	\$ 1,272,000 \$ 100,000						\$ 699,000 \$ 55,000	\$ 1,272,0 \$ 100,0
California California	18	CVP, SAN LUIS UNIT	B.F. SISK SAN LUIS DAM and RESERVOIR	Transferred Transferred	prevent future damage.  Fill piezometer terminal wells at stations 86+00 and 108+00.	С	\$ 100,000						\$ 55,000 \$ 27,500	
	10	CVP, SAN LUIS	B.F. SISK SAN LUIS DAM		Repair drummy concrete found in the upper transition soffits located near the spillway conduit invert and approximately 15									
alifornia	18	UNIT CVP, SAN LUIS	and RESERVOIR	Transferred	feet upstream from a painted marker labeled as No. 1.	С	\$ 15,000						\$ 8,250	
alifornia	18	UNIT	GENERAL MAINTENANCE	Transferred	Water Treatment Plant Replacement	C	\$ 2,915,000	\$ 1,311,000					\$ 1,604,000	\$ 2,915,0

SLFD Facility Fire Safety Modernization

SLFD Surveillance, Romero and Survey Buildings Roof

2,987,000

848,000

410,000

781,000

382,000

184,500

1,736,000

848,000

955,000

466,000

CVP, SAN LUIS

CVP, SAN LUIS

CVP, SAN LUIS UNIT

GENERAL MAINTENANCE

UNIT

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										Fundin	g Categories*			
	1	1	1	Transferred /	T	MR&R		Reclamation	Appropriated			Non-Federal Financia	ng I	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
California	18	CVP, SAN LUIS UNIT	GENERAL MAINTENANCE	Transferred	Electric Vehicle Charging Station Installation	D	\$ 510,000	\$ 66,000					\$ 80,000	\$ 146,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Unit 6 Motor Generator, turbine, and Butterfly Valve Refurbishment	С	\$ 28,872,000	\$ 12,992,500					\$ 15,879,500	\$ 28,872,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Unit 4 Motor Generator, turbine, and Butterfly Valve Refurbishment	С	\$ 28,805,000	\$ 12,962,300					\$ 15,842,700	\$ 28,805,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Unit 2 Motor Generator and Butterfly Valve Refurbishment	С	\$ 23,541,000	\$ 10,593,500					\$ 12,947,500	\$ 23,541,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Unit 8 Motor Generator, turbine, and Butterfly Valve Refurbishment	С	\$ 29,228,000	\$ 5,261,000					\$ 6,430,100	\$ 11,691,100
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	GPGP Fire Safety Modernization	A	\$ 21,439,000	\$ 4,203,500					\$ 5,137,500	\$ 9,341,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	GPGP Replace Plant Protective Relays	E	\$ 4,477,000	\$ 945,000					\$ 1,155,000	\$ 2,100,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Intake Structure Gate 1 Abatement and Refurbishment	С	\$ 1,645,000	\$ 740,200					\$ 904,800	\$ 1,645,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Intake Structure Gate 2 Abatement and Refurbishment	С	\$ 1,645,000	\$ 740,200					\$ 904,800	\$ 1,645,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Intake Structure Gate 3 Abatement and Refurbishment	С	\$ 1,645,000	\$ 740,200					\$ 904,800	\$ 1,645,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Intake Structure Gate 4 Abatement and Refurbishment	С	\$ 1,645,000	\$ 503,100					\$ 614,900	, , , , , , , ,
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT		GPGP Gantry Crane Refurbishment	С	\$ 1,569,000	\$ 352,800					\$ 431,200	, , , , , ,
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT		GPGP Plant HVAC Upgrade	Е	\$ 675,000	\$ 303,750					\$ 371,250	
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Gianelli ACC Video Wall - Replace the control center display equipment.	D	\$ 500,000	\$ 225,000					\$ 275,000	
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Perform localized rust removal and make repairs to the coating of the outlet works bulkhead gates.	С	\$ 80,000	\$ 36,000					\$ 44,000	\$ 80,000
		CVP, SAN LUIS	GIANNELLI PUMP-		Clean and coat the forebay stop logs. Repair any metal wastage that resulted in structural damage or inhibits the gate's ability to									
California	18	UNIT	GENERATING PLANT	Transferred	seal.  Clean and recoat Gianelli's draft tube bulkhead metal deck	D	\$ 75,000	\$ 33,750					\$ 41,250	\$ 75,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	grating to prevent further surface corrosion that could result in potential loss of structural integrity.	С	\$ 75,000	\$ 33,750					\$ 41,250	\$ 75,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Repair damage inside the outlet works intake gate towers.	С	\$ 60,000	\$ 27,000					\$ 33,000	\$ 60,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Re-circuit light work at the Gianelli Pump-Generating Plant.	С	\$ 50,000	\$ 25,000					\$ 25,000	\$ 50,000 *
					Seal (fire stop system) all openings around penetrations for conduits, pipes, tubes, vents and similar items to accommodate									
		CVP, SAN LUIS	GIANNELLI PUMP-		electrical, mechanical, plumbing, and communications systems that pass through the battery room wall,									
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT GIANNELLI PUMP-	Transferred	floor, or ceiling.  Clean and recoat the bulkhead gate hanger along its bottom	В	\$ 50,000	\$ 25,000					\$ 25,000	
California	18	UNIT	GENERATING PLANT	Transferred	supports.  Remove all electrical receptacles and relocate all light switches	С	\$ 30,000	\$ 13,500					\$ 16,500	\$ 30,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	to the outside of the battery room or upgrade the same to code compliant hazardous protected enclosure types.	С	\$ 25,000	\$ 12,500					\$ 12,500	\$ 25,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Repair damaged areas of coal tar enamel in penstock No. 4, including the scroll case, at the Gianelli Pumping Plant.	С	\$ 25,000	\$ 11,250					\$ 13,750	\$ 25,000
	_	CVP, SAN LUIS	GIANNELLI PUMP-		Provide compliant battery room ventilation system or verify and document any applicable existing system in compliance with		_				_			
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT GIANNELLI PUMP-	Transferred		В	\$ 20,000	\$ 10,000					\$ 10,000	
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT GIANNELLI PUMP-	Transferred	Clean and recoat the unwatering pump discharge equipment.  Anchor the control room computer equipment to the control	D	\$ 15,000	\$ 6,750					\$ 8,250	\$ 15,000
California	18	UNIT	GENERATING PLANT	Transferred	building structure.  Clean to bare metal and re-coat the lower portion of the pipeline	С	\$ 10,000	\$ 4,500					\$ 5,500	\$ 10,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	drains that have an existing blue colored coating, located in the Butterfly Valve Rooms.	D	\$ 10,000	\$ 4,500					\$ 5,500	\$ 10,000
		CVP, SAN LUIS	GIANNELLI PUMP-		Fix the broken/deteriorating cover to the switchyard siren. Also, a grounding wire from switch structure to the platform is touching the ground (Photo E20). According to Power Equipment Bulletin (PEB) No. 26 (Switchyard/Substation Grounding), the conductor between the structure and the platform connector must not touch the structure, or concrete, or	-		,,,,,,						
California	18	UNIT	GENERATING PLANT	Transferred	earth (or anything else) at any other point.  Locate areas on the wye branch tie rod and along the entire	D	\$ 10,000	\$ 4,500					\$ 5,500	\$ 10,000
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	length of the interior of the steel tunnel liner that have missing or damaged coal tar enamel coating. Spot repair the areas with a suitable patch coating.	С	\$ 10,000	\$ 4,500					\$ 5,500	\$ 10,000
		CVP, SAN LUIS	GIANNELLI PUMP-		Repair the de-laminating concrete and steel angle closure strip at the intake structure deck, located behind the stop logs at Unit									
California	18	UNIT	GENERATING PLANT	Transferred	No. 5 and No. 6.	D	\$ 10,000	\$ 4,500	<u> </u>		l	l	\$ 5,500	\$ 10,000

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										Fundin	g Categories*			
		1		Im a v	Т	Man		Reclamation	Appropriated			Non-Federal Financin	ıg	
r	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total		Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
					Replace the receptacles located next to the unit transformer, on									
		CVP, SAN LUIS	GIANNELLI PUMP-		the north side of the rear of the plant and test the circuit protection breaker. Also fix or replace the GFCI outlet located at									
California	18	UNIT	GENERATING PLANT	Transferred	the Sprinkler Shut-Off Valve area.	D	\$ 10,000	\$ 4,500					\$ 5,500	\$ 10,000
		CVP, SAN LUIS	GIANNELLI PUMP-		Investigate and repair GFI receptacles located in the forebay									
California	18	UNIT	GENERATING PLANT	Transferred	walls at the Gianelli Pump-Generating Plant.	D	\$ 10,000	\$ 5,000					\$ 5,000	\$ 10,000 *
California	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP- GENERATING PLANT	Transferred	Anchor the power transformers to the control building structure.	С	s 5,000	\$ 2,250					\$ 2,750	s 5,000
Camornia	10	CVP, SAN LUIS	GIANNELLI PUMP-	Transferred	Anchor the Station service power components to the control	C	\$ 3,000	\$ 2,230	1				\$ 2,730	3 3,000
California	18	UNIT	GENERATING PLANT	Transferred	building structure.	C	\$ 5,000	\$ 2,250					\$ 2,750	\$ 5,000
		CVP, SAN LUIS	GIANNELLI PUMP-											
California	18	UNIT	GENERATING PLANT GIANNELLI PUMP-	Transferred	Repair Unit 2 BFV servomotor water leak.	D	\$ 5,000	\$ 2,250					\$ 2,750	\$ 5,000
California	18	CVP, SAN LUIS UNIT	GENERATING PLANT	Transferred	Remedy the conductor attaching the structure to the platform to conform to PEB No. 26.	D	\$ 5,000	\$ 2,250					\$ 2,750	\$ 5,000
Camorina	10	CVP, SAN LUIS	GIANNELLI PUMP-	Hansierred	Anchor the fire suppression piping to the control building	ь	3,000	3 2,230					3 2,730	5,000
California	18	UNIT	GENERATING PLANT	Transferred	structure.	C	\$ 3,000	\$ 1,350					\$ 1,650	\$ 3,000
		CVP, SAN LUIS UNIT	GIANNELLI PUMP-		Anchor the telephone equipment to the control building	_		s 1.350						
California	18	CVP, SAN LUIS	GENERATING PLANT GIANNELLI PUMP-	Transferred	structure.  Anchor the motor-generator cooling piping system to the	С	\$ 3,000	\$ 1,350					\$ 1,650	\$ 3,000
California	18	UNIT	GENERATING PLANT	Transferred	building structure.	С	\$ 2,000	\$ 900					\$ 1,100	\$ 2,000
		CVP, SAN LUIS	GIANNELLI PUMP-											
California	18	UNIT	GENERATING PLANT	Transferred	Anchor the switchyard control boards to the building structure.	C	\$ 2,000	\$ 900					\$ 1,100	\$ 2,000
C-1;6;-	18	CVP, SAN LUIS UNIT	GIANNELLI PUMP-	T	Anchor the unit control and excitation cubicles to the control building structure.	C	\$ 2,000	\$ 900					\$ 1,100	s 2.000 *
California	18	CVP, SAN LUIS	GENERATING PLANT GIANNELLI PUMP-	Transferred	ounding structure.	C	s 2,000	o 900					a 1,100	a 2,000 °
California	18	UNIT	GENERATING PLANT	Transferred	Ground the metal stairs located next to the unit transformers.	C	\$ 2,000	\$ 900					\$ 1,100	\$ 2,000
		CVP, SAN LUIS	GIANNELLI PUMP-		Properly label the circuit breakers located in the listed cabinets									
California	18	UNIT CVP. SAN LUIS	GENERATING PLANT GIANNELLI PUMP-	Transferred	and panelboards.	C	\$ 2,000	\$ 900					\$ 1,100	\$ 2,000
California	18	UNIT	GENERATING PLANT	Transferred	Adjust compressor pressure switch on switchyard circuit breaker 2382 to manufacturer's recommendations.	D	\$ 1,000	\$ 450					\$ 550	\$ 1,000
Camorina	10		GIANNELLI PUMP-	Transierred	Properly terminate the wires located between Unit 5 and Unit 7	ь	3 1,000	3 450					3 330	3 1,000
California	18	UNIT	GENERATING PLANT	Transferred	on the 4th floor.	D	\$ 1,000	\$ 450					\$ 550	\$ 1,000
	18	CVP, SAN LUIS	GIANNELLI PUMP-		Replace the seals while the bulkhead gates are being	С								
California	18	UNIT	GENERATING PLANT	Transferred	refurbished.  Clear or dredge the downstream toe drain runoff channel area of	C	\$ 1,000	\$ 300					\$ 300	\$ 600
		CVP, SAN LUIS			sediment and obstructing vegetation in the vicinity of the station									
California	18	UNIT	ONEILL DAM	Transferred	132.	E	\$ 20,000						\$ 20,000	\$ 20,000 *
		CVP, SAN LUIS			Replace the corroded and leaking corrugated toe drain outlet									
California	18	UNIT	ONEILL DAM	Transferred	pipes at stations 132+45 and 134+75.  Provide channel slope protection to prevent sloughing/erosion of	С	\$ 20,000	\$ 9,000					\$ 11,000	\$ 20,000 *
		CVP, SAN LUIS			channel side slopes onto the weir box at station 40+80 and									
California	18	UNIT	ONEILL DAM	Transferred	replace the deteriorated wood cover for this weir box.	C	\$ 15,000	\$ 6,750					\$ 8,250	\$ 15,000 *
		CVP, SAN LUIS	ONEILL PUMP-											
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT ONEILL PUMP-	Transferred	Rewind Units 1-6	С	\$ 14,193,000	\$ 14,193,000						\$ 14,193,000 *
California	18	UNIT	GENERATING PLANT	Transferred	Unit Breaker Replacement	D	\$ 3,000,000	\$ 3,000,000						\$ 3,000,000 *
Cumomu	10	CVP, SAN LUIS	ONEILL PUMP-	Transferred	City Dreams replacement		3,000,000	\$ 2,000,000						3,000,000
California	18	UNIT	GENERATING PLANT	Transferred	Rehabilitate Pump Assemblies	D	\$ 3,561,000						\$ 2,576,000	\$ 2,576,000 *
	4.0	CVP, SAN LUIS	ONEILL PUMP-											
California	18	UNIT CVP. SAN LUIS	GENERATING PLANT ONEILL PUMP-	Transferred	Unit Excitation Rehabilitation	D	\$ 1,716,000		-		-		\$ 1,716,000	\$ 1,716,000 *
California	18	UNIT	GENERATING PLANT	Transferred	Rehabilitate Penstock Interiors	D	\$ 1,642,000						\$ 1,105,000	\$ 1,105,000 *
		CVP, SAN LUIS	ONEILL PUMP-											,,
California	18	UNIT	GENERATING PLANT	Transferred	Thrust Bearing Replacement	D	\$ 1,000,000						\$ 1,000,000	\$ 1,000,000 *
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	Main Transformer Rehabilitation	D	\$ 726,000						\$ 726,000	\$ 726,000 *
Camorina	10	CVP, SAN LUIS	ONEILL PUMP-	riansicired	Talistorner renaumation	ט	720,000				1		720,000	720,000
California	18	UNIT	GENERATING PLANT	Transferred	Unit Cladding Rehabilitation	D	\$ 675,000				<u> </u>		\$ 675,000	\$ 675,000 *
0.110	4.5	CVP, SAN LUIS	ONEILL PUMP-			-								
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT ONEILL PUMP-	Transferred	Plant Flowmeter System Rehabilitation	D	\$ 572,000		<del>                                     </del>				\$ 572,000	\$ 572,000 *
California	18	UNIT	GENERATING PLANT	Transferred	Dredge OPP Intake Channel	D	S 500,000						\$ 500,000	\$ 500,000 *
		CVP, SAN LUIS	ONEILL PUMP-						1					
California	18	UNIT	GENERATING PLANT	Transferred	Unit 1 - Install Pump Bowl Access Opening	D	\$ 500,000						\$ 500,000	\$ 500,000 *
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	Protective Relay /Control Panel /SCADA Replacement	D	\$ 459,000						\$ 459,000	\$ 459,000 *
Camornia	18	CVP, SAN LUIS	ONEILL PUMP-	1 ransterred	roccave Keiay /Control raner/SCADA Replacement	Ŋ	o 459,000		<del>                                     </del>		-		a 459,000	a 459,000 °
California	18	UNIT	GENERATING PLANT	Transferred	DMC Trashrack Cleaner & Stoplog Rehabilitation	D	\$ 450,000		<u>                                       </u>		<u>                                     </u>		\$ 450,000	\$ 450,000 *
		CVP, SAN LUIS	ONEILL PUMP-											_
California	18	UNIT	GENERATING PLANT ONEILL PUMP-	Transferred	Unit Propeller Rehabilitation	D	\$ 450,000		-				\$ 450,000	\$ 450,000 *
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	Unit Cooler Rehabilitation / replacement	D	\$ 424,000				l		\$ 424,000	\$ 424,000 *
Camonna	10	CVP, SAN LUIS	ONEILL PUMP-	riansicired	Cara Cooler Renaormation / replacement	ט	924,000						y 424,000	424,000
				i	1	ъ	6 200,000				l		\$ 300,000	\$ 300,000 *
California	18	UNIT	GENERATING PLANT	Transferred	Cooling Water System Strainer Replacement	D	\$ 300,000						3 300,000	
		CVP, SAN LUIS	ONEILL PUMP-											
California California	18 18			Transferred Transferred	Cooling Water System Strainer Replacement Unit Woodword Governor Replacement	D	\$ 300,000						\$ 300,000	\$ 300,000 *

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								[			Fundin	g Categories*	N E I IE.		
		1		Transferred /		MR&R			Reclamation	Appropriated			Non-Federal Financin	ıg	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated T Costs		Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	Cooling Water System Rehabilitation	D		50,000	Surety	Surety	reactur	7 mancing	water esers	\$ 250,000	\$ 250,000
		CVP, SAN LUIS	ONEILL PUMP-		,										
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT ONEILL PUMP-	Transferred	Sand Filter System Rehabilitation / replacement	D		50,000						\$ 250,000	\$ 250,000
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT ONEILL PUMP-	Transferred	UPS Battery Replacement	D	\$ 2	50,000						\$ 250,000	\$ 250,000
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT ONEILL PUMP-	Transferred	Forebay Trashrack Cleaner and Stoplog Hoist Improvement	D	\$ 2	00,000						\$ 200,000	\$ 200,000
California	18	UNIT	GENERATING PLANT	Transferred	Siphon Breaker system Rehabilitation	D	\$ 2	00,000						\$ 200,000	\$ 200,000
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	Plant Security System Improvements	D	S 1	90,000						\$ 190,000	\$ 190,000
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	Plant Water Storage Tank Rehabilitation	D	\$ 1	50,000						\$ 150,000	\$ 150,000
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	Upgrade High Pressure Lube Oil Pump System	D	S 1	25,000						\$ 125,000	\$ 125,000
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	O'Neill PGP Gantry Crane Rehabilitation	С	S 1	13,000						\$ 113,000	\$ 113,000
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	Plant Annunciator Upgrades	D		11,000						\$ 111,000	\$ 111,000
California	18	CVP, SAN LUIS UNIT	ONEILL PUMP- GENERATING PLANT	Transferred	Station Service Backup Battery Replacement	D		10,000						\$ 110,000	\$ 110,000
		CVP, SAN LUIS	ONEILL PUMP-												
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT ONEILL PUMP-	Transferred	Shaft Sleeve Manufacturing	D		02,000						\$ 102,000	\$ 102,000
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT ONEILL PUMP-	Transferred	Trashrack Replacement	D	\$ 1	01,000						\$ 101,000	\$ 101,000
California	18	UNIT CVP, SAN LUIS	GENERATING PLANT ONEILL PUMP-	Transferred	HVAC System Rehabilitation / Replacement	D	\$ 1	00,000						\$ 100,000	\$ 100,000
California	18	UNIT	GENERATING PLANT	Transferred	Plant Roof Surface Replacement	E	S 1	00,000						\$ 100,000	\$ 100,000
		CMD CANITING			San Luis Canal Subsidence Remedy - Develop and implement a										
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	long term solution to ensure the canal meets design capacity and conveyance requirements for the next 50 years of operation.	A	\$ 530,0	74,000	\$ 238,533,000					\$ 291,541,000	\$ 530,074,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	San Luis Canal Subsidence Rehabilitation Program	A	\$ 109,5	59,000	\$ 41,050,000					\$ 50,172,000	\$ 91,222,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	DAPP Siphon House and Discharge Line Refurbishment	A	\$ 11,1	68,000	\$ 5,026,000					\$ 6,142,000	\$ 11,168,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	DAPP AVR Replace/Upgrade and PCB Replacement	С	S 10.8	12.000	\$ 4.532.000					\$ 5,538,000	s 10,070,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	DAPP Fire Safety Modernization	Δ	\$ 15.6	78,000	\$ 4,101,000					\$ 5,013,000	\$ 9,114,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	DAPP Unit 2 Impeller Hub Refurbishment	C		72,000	\$ 3,317,000					\$ 4,055,000	\$ 7,372,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	DAPP Unit 4 Impeller Hub Refurbishment	C		72,000	\$ 3,317,000					\$ 4,055,000	\$ 7,372,000
		CVP, SAN LUIS				_									
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	DAPP Unit 5 Impeller Hub Refurbishment	С		72,000	\$ 3,316,500					\$ 4,055,500	\$ 7,372,000
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	DAPP Unit 6 Impeller Hub Refurbishment	С	\$ 7,3	72,000	\$ 3,497,000					\$ 3,875,000	\$ 7,372,000
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	DAPP Unit 1 Impeller Hub Refurbishment	С	\$ 7,3	13,000	\$ 3,290,850					\$ 4,022,150	\$ 7,313,000
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	DAPP Unit 1 Poles Refurbishment	С	\$ 3,0	41,000	\$ 1,368,000					\$ 1,673,000	\$ 3,041,000
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	DAPP Unit 2 Poles Refurbishment	С	\$ 3,0	41,000	\$ 1,368,000		\$ 1,673,000				\$ 3,041,000
California	18	UNIT	SAN LUIS Canal	Transferred	DAPP Unit 4 Poles Refurbishment	С	\$ 3,0	41,000	\$ 1,368,450					\$ 1,672,550	\$ 3,041,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	DAPP Unit 5 Poles Refurbishment	С	\$ 3,0	41,000	\$ 1,368,000					\$ 1,673,000	\$ 3,041,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	DAPP Unit 6 Poles Refurbishment	С	\$ 3,0	41,000	\$ 1,368,000					\$ 1,673,000	\$ 3,041,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Rehabilitate bridge bearing system at MP 88.51 to meet current caltrans standards.	A	\$ 2.5	00,000	\$ 1,124,000	]	-			\$ 1,376,000	\$ 2,500,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Rehabilitate bridge bearing system at MP 89.68 to meet current caltrans standards.	A		00,000	\$ 1,125,000					\$ 1,375,000	\$ 2,500,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	MP139.34 Irrigation Pipeline Crossing Replacement Reach 5	E		97,000	\$ 682,200					\$ 833,800	\$ 1,516,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	DAPP Unit 1 Re-coating Repair	C		82,000	\$ 667,000					\$ 815,000	\$ 1,482,000
	18	CVP, SAN LUIS				C	,								\$ 1,482,000 \$ 1,482,000
California	10	CVP, SAN LUIS	SAN LUIS Canal	Transferred	DAPP Unit 2 Re-coating Repair	Ü		82,000	\$ 667,000					\$ 815,000	1,102,000
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	DAPP Unit 4 Re-coating Repair	С		82,000	\$ 667,000					\$ 815,000	\$ 1,482,000
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	DAPP Unit 5 Recoating Repair	С	\$ 1,4	82,000	\$ 667,000	1				\$ 815,000	\$ 1,482,000
California	18	UNIT	SAN LUIS Canal	Transferred	DAPP Unit 6 Re-coating Repair	С	\$ 1,4	82,000	\$ 667,000					\$ 815,000	\$ 1,482,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Californ   1									Funding Categories*							
Column   C											Appropriated			Non-Federal Financin	ıg	
College   Coll	£4-4-			A 4 N	Reserved	Dairf Decemination of Words Noveled	Categorization		tal	Excluding Dam						
Colfest   18   Will   Section   Se	State	District		Asset Name	Works		Kating	Costs		Salety	Salety	rederai	Financing	water Users	Partners	MK&K 10tal
Collision   St.   No.   St.   St.   Collision   St.	California	18		SAN LUIS Canal	Transferred		В	\$ 1,500	,000 \$	\$ 540,000					\$ 660,000	\$ 1,200,000 *
Column   1																
Column   18   NOT   Column   NATION Could   Transferred	California	18		SAN LUIS Canal	Transferred		E	\$ 67:	5,000 \$	\$ 303,750					\$ 371,250	\$ 675,000
College   1	California	18		SAN LUIS Canal	Transforred	Investigate and repair the low area an the crest road at MP	Δ.	\$ 250	000 5	\$ 112,500					\$ 137,500	\$ 250,000 *
Others   15   OST   SASSUS Card   Transfer   Sassus   Transfer	Camorina	10		DAIN LOIS Canai	Hansiened			2.50	,000 4	112,300					3 137,300	3 230,000
Column   1	California	18		SAN LUIS Canal	Transferred	cracked, spalled, displaced, bulged, or buckled concrete.	E	\$ 250	,000 \$	\$ 112,500					\$ 137,500	\$ 250,000 *
Column   10   Out   Column   Section   Secti			CVID CANITING				/									
Column   1	California	18		SAN LUIS Canal	Transferred		Δ	\$ 20	000 5	\$ 90,000					\$ 110,000	s 200,000 *
Column   St. Nort   St. VICE Cond   Transfer	Camorina	10		DAIN LOIS Canai	riansierieu		Α	3 200	,,000 4	3 70,000					3 110,000	3 200,000
College   10   New York   New Y	California	18	UNIT	SAN LUIS Canal	Transferred		C	\$ 20	,000 \$	\$ 90,000					\$ 110,000	\$ 200,000
Collision   Coll																
Column   St.   Ort   Sex List Cond   Temporary   Column   St.   Sex List Cond   St.	California	18		SAN LUIS Canal	Transferred	Repair the leaking expansion joints on the U2 and U6 penstocks	. А	\$ 180	0,000 \$	\$ 90,000					\$ 90,000	\$ 180,000 *
Company   Comp	California	18		SAN LUIS Canal	Transferred	Arroyo Pasaiero flood control improvements	C	S 214	1.000 5	s 41.000					s 50.000	\$ 91,000
Californ   1						Clean and recoat the exterior of the unit 1 discharge pipe located	1		,,,,,,							
Coliforn   19							_	_								
Common   C	California	18	UNIT	SAN LUIS Canal	Transferred		C	\$ 7:	5,000 \$	\$ 37,500				\$ 37,500		\$ 75,000 *
Column   18   NNT			CVP. SAN LUIS				1									
California   18   NST   SAN LIUS Canal   Transferred   Reputars pages of the antique appears, and manages   C   \$ 7,000   \$ 3,250   \$	California	18		SAN LUIS Canal	Transferred		С	\$ 7:	5,000 \$	\$ 33,750					\$ 41,250	\$ 75,000
Section   Sect																
California   18   CVP, SAN LUS   Canal   Transferred   Canal And Mark Yees (2004)   California   SAN LUS Canal   Transferred   California   SAN LUS Cana	California	18	UNIT	SAN LUIS Canal	Transferred	Repair/replace the left and right approach steel angles.	С	\$ 7:	,000 \$	\$ 34,000					\$ 41,000	\$ 75,000 *
California   18   INIT   SALUES Caul   Transferred   Security   Salue   Salu			CVP SANTIJIS				,									
Colifornia   18   CVF, SAN LUS Canal   Francisco   F	California	18		SAN LUIS Canal	Transferred		В	s 10:	2.000 5	s 24.300					s 29.700	\$ 54,000
California   18						Fill and recompact the void that has been caused by erosion that				, , , , , , , , , , , , , , , , , , , ,						
Cultionia   18						is undermining the concrete deck approach of the bridge located	_									
Collisions   1	California	18	UNIT	SAN LUIS Canal	Transferred		С	\$ 50	0,000 \$	\$ 22,000					\$ 28,000	\$ 50,000 *
California   18   UNIT   SAN LUIS Coard   Transferred   Sile center condendement.   C   S   5,000   S   2,200   S   2,200   S   2,200   S   2,000			CVP. SAN LUIS			Canal MP 132.97 (Check 17) on the Cantua Creek protective										
Company   Comp	California	18		SAN LUIS Canal	Transferred	dike crest embankment.	С	\$ 50	,000 \$	\$ 22,000					\$ 28,000	\$ 50,000 *
California   18																
California   18   UNIT   SAN LUIS Canal   Transferred   San Courted description of the bridge deck.   C   S   50,000   S   22,000   S   22,000   S   50,000   S	0.110	40		CANTITUD C. I												
Colifornia   S.   CVP, SAN LUIS   CALIFORNIA   Transferred   Institute content of be helige deck.   C.   S.   50,000   S.   22,000   S.   20	California	18	UNII	SAN LUIS Canai	Transferred		C	\$ 51	0,000 \$	\$ 22,000					\$ 28,000	\$ 50,000 *
California   18   UNIT   SAN LUIS Canal   Transferred   Blast clean decla and stall an appropriate concrete overlay wereing surface and stall an appropriate concrete overlay wereing surface and stall an appropriate concrete overlay wereing surface and stall an appropriate concrete overlay wereing surface and stall an appropriate concrete overlay wereing surface and stall an appropriate concrete overlay wereing surface on the Nation Avenue Bridge at Plan			CVP, SAN LUIS													
Colifornia   18	California	18		SAN LUIS Canal	Transferred	structure costs of the bridge deck.	C	\$ 50	,000 \$	\$ 22,000					\$ 28,000	\$ 50,000 *
California   18																
California   18   UNIT   SAN LUIS Canal   Transferred   Avenue Bridge at MP   18   SAN LUIS Canal   Transferred   Avenue Bridge at MP   18   SAN LUIS Canal   Transferred   Avenue Bridge at MP   18   SAN LUIS Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal   Transferred   San Luis Canal	California	10		CAN LUIC Conel	Transformed		C	9 50	000	22,000					\$ 29,000	\$ 50,000 *
California   18	Camonna	10	UNII	SAN LUIS Callai	Hansieneu		C	3 3	,000 3	5 22,000					3 28,000	3 30,000
Blast clean deck, methocythic, place   Forest Polyster concrete   Forest Polyster concrete   Forest Polyster   Forest			CVP, SAN LUIS													
CVP, SAN LUIS	California	18	UNIT	SAN LUIS Canal	Transferred		С	\$ 50	,000 \$	\$ 22,000					\$ 28,000	\$ 50,000 *
California   18			CVD CANILING			Blast clean deck, methacrylate, place 1.5" polyester concrete										
Silsst cleam deck, replace worm and broken top deck   CVP, SAN LUIS   California   18   UNIT   SAN LUIS Canal   Transferred   Silsst cleam deck, replace worm and broken top deck   CVP, SAN LUIS   SAN LUIS Canal   Transferred   Silsst cleam deck and place an appropriate new concrete overlay wearing surface at the TRAC-   C   S   50,000   S   22,000   S   22,000   S   50,000   S	California	18		SAN LUIS Canal	Transferred		С	S 50	0.000 5	s 22.000					s 28.000	\$ 50,000 *
California   18									,,,,,,							
California   18																
Blast clean the deck and place an appropriate concrete overlay wearing surface, to include any place of the expose of right of the expose of right of the expose of right of the expose of right of the expose of right of the expose of right of the expose of right of the expose of right of the expose of right of the expose of the left span, on the deck at the TRAC-142 Stutz seed on the left span, on the deck at the TRAC-142 Stutz seed on the left span, on the deck at the TRAC-142 Stutz seed on the left span, on the deck at the TRAC-142 Stutz seed on the left span, on the deck at the TRAC-142 Stutz seed on the left span, on the deck seed on the left span, on the deck seed on the left span, on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the left span on the left span on the deck seed of the TRAC-143 Stutz seed on the left span on the le	C I'C .	10		CANTILIZO C. I	T C 1					22.000					6 20,000	6 50,000
California   18	California	18	UNII	SAN LUIS Canal	1 ransterred		C	s 51	,000 \$	> 22,000					\$ 28,000	a 50,000 *
California   18						wearing surface, to include repair of the exposed reinforcing										
California   18   UNIT   SAN LUIS Canal   Transferred   Blast clear the deck, remove unsound concrete a t joint armor, and place an applace and place an appropriate concrete overlay wearing onto the deck of the TRAC-13   C   S   50,000   S   22,000   S   22,000   S   28,000   S   50,000   S   20,000																
California 18 UNIT SAN LUIS Canal Transferred of the TRAC-143 of the Trac-143	California	18	UNIT	SAN LUIS Canal	Transferred		С	\$ 51	,000 \$	\$ 22,000					\$ 28,000	\$ 50,000 *
California   18			CVP. SAN LUIS		1		.[									
California 18 UNIT SAN LUIS Canal Transferred place (expansion) joints of debris and replace the damaged paproach.  California 18 UNIT SAN LUIS Canal Transferred springer - Clean the Brannon Avenue Bridge - Repair or replace the damaged paproach.  California 18 UNIT SAN LUIS Canal Transferred springer - Repair or replace the damaged paproach.  California 18 UNIT SAN LUIS Canal Transferred springer - Repair or replace the damaged paproach.  California 18 UNIT SAN LUIS Canal Transferred springer - Repair or replace the damaged paproach.  California 18 UNIT SAN LUIS Canal Transferred Springer - Repair or replace the damaged paproach.  California 18 UNIT SAN LUIS Canal Transferred Springer - Clean the Canyon Road Bridge - Repair or replace the damaged paproach.  California 18 UNIT SAN LUIS Canal Transferred Springer - Clean the Canyon Road Bridge - Repair or replace the damaged paproach.  California 18 UNIT SAN LUIS Canal Transferred Springer - Clean the Canyon Road Bridge - Repair or replace the damaged paproach.  California 18 UNIT SAN LUIS Canal Transferred filler mayor Road Bridge - Repair or replace to failed expansion joint of debris and replace the failed expansion joint of debris and replace the failed expansion joint of debris and replace the failed expansion joint of debris and replace the failed expansion joint of C S S S0,000 S S2,000 S S0,0	California	18		SAN LUIS Canal	Transferred	of the TRAC-143	С	\$ 50	0,000	\$ 22,000					\$ 28,000	\$ 50,000 *
California   18					1	Brannon Avenue Bridge - Clean the Brannon Avenue Bridge			T	7.22					-,	
California   18   UNIT   SAN LUIS Canal   Transferred   Approach   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   San and 2.   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or replace the damaged   Capyon Road Bridge - Repair or rep		l			1			l <u>.</u>	] ,				l	]		
California   18	California	18	UNIT	SAN LUIS Canal	Transferred		С	\$ 50	,000 \$	\$ 22,000			1	<b> </b>	\$ 28,000	\$ 50,000 *
California         18         UNIT         SAN LUIS Canal         Transferred         approach.         C         \$ 50,000         \$ 22,000         \$ 28,000         \$ 50,000           California         18         UNIT         SAN LUIS Canal         Transferred         Spannon Avenue Bridge steel expansion joint plate between         C         \$ 50,000         \$ 22,000         \$ 28,000         \$ 50,000           California         18         UNIT         SAN LUIS Canal         Transferred         Span jan Act 2.         C         \$ 50,000         \$ 22,000         \$ 28,000         \$ 50,000           California         18         UNIT         SAN LUIS Canal         Transferred         filler marked Expansion joint of debris and replace the failed expansion joint of expansion joint of debris and replace the failed expansion joint of expansion			CVP, SAN LUIS													
California   18   UNIT   SAN LUIS Canal   Transferred   Span 1 and 2.   Canyon Road Bridge - Repair or replace the damaged   San District   California   18   UNIT   SAN LUIS Canal   Transferred   Span 1 and 2.   Canyon Road Bridge - Clean the Canyon Road bridge deck   Canyon Road Bridge - Repair or replace to failed expansion joint   California   18   UNIT   SAN LUIS Canal   Transferred   Transferred   Canyon Road Bridge - Repair or replace footbridge deck and   Canyon Road Bridge - Repair or replace footbridge de	California	18		SAN LUIS Canal	Transferred		С	\$ 50	,000 \$	\$ 22,000	<u> </u>		<u> </u>	<u>                                      </u>	\$ 28,000	\$ 50,000 *
California   18																
California 18 UNIT SAN LUIS Canal Transferred filler material.  California 18 UNIT SAN LUIS Canal Transferred filler material.  California 18 UNIT SAN LUIS Canal Transferred filler material.  California 18 UNIT SAN LUIS Canal Transferred filler material.  California 18 UNIT SAN LUIS Canal Transferred filler material.  Caryon Road Bridge - Repair or replace footbridge deck and hand rail adjacent to Canyon Road Bridge.  C \$ 50,000 \$ 22,000 \$ \$ 28,000 \$ \$ 50,000 \$ \$ 28,000 \$ \$ 50,000 \$ \$ 28,000 \$ \$ 50,000 \$ \$ 28,000 \$ \$ 50,000 \$ \$ 28,00	C-lie :	10		CANTILIE C- 1	т с					22.000					e 20.000	6 50.000
CAlifornia 18 UNIT SAN LUIS Canal Transferred filler material.  California 18 UNIT SAN LUIS Canal Transferred filler material.  Canyon Road Bridge - Repair or replace footbridge deck and UNIT SAN LUIS Canal Transferred band rail adjacent to Canyon Road Bridge.  CYP, SAN LUIS Canal Transferred filler material.  Canyon Road Bridge - Repair or replace footbridge deck and UNIT SAN LUIS Canal Transferred band rail adjacent to Canyon Road Bridge.  CYP, SAN LUIS Canal Transferred filler material.  Canyon Road Bridge - Repair or replace footbridge deck and Canyon Road Bridge.  C \$ 50,000 \$ 22,000 \$ \$ 28,000 \$ \$ 50,000 \$ \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,000 \$ \$ 50,	California	18	UNII	SAN LUIS Canal	Transferred		C	\$ 51	,000 \$	> 22,000			-	-	\$ 28,000	\$ 50,000 *
California   18   UNIT   SAN LUIS Canal   Transferred   filler material   C   S   50,000   S   22,000   S   28,000   S   50,000			CVP, SAN LUIS		1								l			
California 18 UNIT SAN LUIS Canal Transferred band rail adjacent to Canyon Road Bridge. C \$ 5,000 \$ 22,000 \$ \$ 28,000 \$ \$ 50,000 \$ \$ \$ 50,000 \$ \$ \$ 50,000	California	18	UNIT	SAN LUIS Canal	Transferred	filler material.	С	\$ 50	,000 \$	\$ 22,000					\$ 28,000	\$ 50,000 *
Cerini Avenue Bridge - Repair concrete cracks and spalls on the CVP, SAN LUIS left upstream channel protection near the Cerini Avenue Bridge			CVP, SAN LUIS							_					_	
CVP, SAN LUIS left upstream channel protection near the Cerini Avenue Bridge	California	18	UNII	SAN LUIS Canal	Transferred		С	\$ 51	,000 \$	\$ 22,000			<del> </del>	<b> </b>	\$ 28,000	\$ 50,000 *
			CVP. SAN LUIS		1								l	]		
	California	18		SAN LUIS Canal	Transferred		С	\$ 50	,000 \$	\$ 22,000			1		\$ 28,000	\$ 50,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	g Categories*			
	1	1	1	T. 6 1/	T	MR&R	T	Reclamation	Appropriated			Non-Federal Financia	ng	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
					Cerini Avenue Bridge - Repair downstream railing post and									
0.110	18	CVP, SAN LUIS UNIT	CANTINGO	Tr. C. 1	concrete damage at supports approximately six feet from the	С	s 50,000	\$ 22,000					\$ 28,000	\$ 50,000 s
California	18	CVP, SAN LUIS	SAN LUIS Canal	Transferred	Cerini Avenue Bridge left abutment.  Check 6 Bridge - Repair upstream and downstream Check 6	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
California	18	UNIT	SAN LUIS Canal	Transferred	Bridge guardrail fence at upper pipe support	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
		CVP, SAN LUIS			Clean the Yba Avenue Bridge deck expansion joints of debris									
California	18	UNIT	SAN LUIS Canal	Transferred	and replace the failed expansion joint filler material.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
		CVP, SAN LUIS			Creek Road Bridge - Clean the Creek Road deck expansion joints of debris and replace the failed expansion joint filler									
California	18	UNIT	SAN LUIS Canal	Transferred	material.	С	s 50,000	\$ 22,000					\$ 28,000	\$ 50,000 °
								,000					,,,,,,	
		CVP, SAN LUIS			Dinuba Avenue Bridge - Repair missing concrete slab section or	n								
California	18	UNIT	SAN LUIS Canal	Transferred	the right end of Span 2 near the right steel expansion joint angle	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Dinuba Avenue Bridge - Repair/replace the steel angles where needed at the expansion joints.	C	s 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
Camorina	10	OIVII	SAIV LOIS Canai	Transierred	Eagle Field Road - Repair the 6 ft by 1 ft delaminated area	Č	3 30,000	3 22,000					20,000	30,000
		CVP, SAN LUIS			adjacent to the Eagle Field Road Bridge's deck joint 1, between									
California	18	UNIT	SAN LUIS Canal	Transferred	spans 1 and 2 from the left abutment.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Eagle Field Road Bridge - Repair the canal lining cracks at the	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
California	18	UNII	SAN LUIS Canai	Transferred	left abutment of the Eagle Field Road Bridge.	C	\$ 50,000	\$ 22,000	-				\$ 28,000	\$ 50,000
		CVP, SAN LUIS			Hilldale Avenue Bridge - Clean Hilldale Bridge deck expansion									
California	18	UNIT	SAN LUIS Canal	Transferred	joints of debris and replace the failed joint filler material.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
					Jeffrey Avenue Bridge - Repair or replace the Jeffrey Avenue									
		CVP, SAN LUIS			Bridge steel angles at the approaches and at the expansion									
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	joints.	С	\$ 50,000	\$ 22,500					\$ 27,500	\$ 50,000
California	18	UNIT	SAN LUIS Canal	Transferred	Lincoln Avenue Bridge - Install expansion joint material at each deck expansion joint.	С	s 50,000	s 22,500					\$ 27,500	\$ 50,000 *
Camorina	10	CVP, SAN LUIS	SAIV LOIS Canai	Transierred	Lincoln Avenue Bridge - Repair or replace damaged approach	Č	3 30,000	3 22,300					3 27,300	3 30,000
California	18	UNIT	SAN LUIS Canal	Transferred	steel plates on the left and right approaches.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
					Mervel Avenue Bridge - Clean the Mervel Avenue Bridge deck									
		CVP, SAN LUIS			expansion joints of debris and replace the failed expansion joint									
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	filler material.  Mervel Avenue Bridge - Repair or replace the footbridge hand	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
California	18	UNIT	SAN LUIS Canal	Transferred	rail adjacent to Mervel Avenue Bridge.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 °
Cumoma	10	0.111	D. I. v E. C. I. Cumur	Transferred	Mt. Whitney Avenue Bridge - Repair spall with exposed	Ŭ	30,000	\$ 22,000					20,000	\$ 50,000
		CVP, SAN LUIS			reinforcement on the underside of the deck at the left upstream									
California	18	UNIT	SAN LUIS Canal	Transferred	edge of the Mt. Whitney Bridge Span 1.	C	\$ 50,000	\$ 22,500					\$ 27,500	\$ 50,000
		CVP. SAN LUIS			Nees Avenue Bridge - Remove debris from the Nees Bridge									
California	18	UNIT	SAN LUIS Canal	Transferred	deck joints, replace the deck joint filler material and repair spalling at deck joints.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
Camorina	16	CVP, SAN LUIS	SAN LUIS Callai	Transferred	Nees Avenue Bridge - Repair alligator cracking and rutting at	C	3 30,000	3 22,000					\$ 28,000	3 30,000
California	18	UNIT	SAN LUIS Canal	Transferred	the right approach to match the Nees Avenue Bridge deck.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
		CVP, SAN LUIS			Oakland Avenue Bridge - Repair or replace the expansion joint									
California	18	UNIT	SAN LUIS Canal	Transferred	filler material.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
California	18	CVP, SAN LUIS	SAN LUIS Canal	Transferred	Oakland Avenue Bridge - Repair spall on left edge of Span 2 at the expansion joint between Spans 1 and 2.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 °
Camorna	10	CVP, SAN LUIS	SAN LUIS Callai	Hansiened	Oakland Avenue Bridge - Repair/replace steel joint plates where		3 30,000	\$ 22,000					\$ 28,000	3 30,000
California	18	UNIT	SAN LUIS Canal	Transferred	needed	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
					Operations Road Bridge - Clean the Operations Road Bridge									
		CVP, SAN LUIS			deck expansion joints of debris and replace the failed expansion									
California	18	UNIT	SAN LUIS Canal	Transferred	joint filler material.  Parkhurst Avenue Bridge - Remove corrosion/rust from exposed	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
					reinforcing steel on Spans 1 and 3 by saw cutting the concrete									
	l	CVP, SAN LUIS	Ì	I	repair perimeter and wire brushing the steel. Place new concrete								]	
California	18	UNIT	SAN LUIS Canal	Transferred	cover/topping over exposed rebars.	С	\$ 50,000	\$ 22,000			]		\$ 28,000	\$ 50,000
0.110		CVP, SAN LUIS	CANTINGG	1	Parkhurst Avenue Bridge - Repair or replace the expansion joint									
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	filler material.  Parkhurst Avenue Bridge - Repair the left upstream guard rail	С	\$ 50,000	\$ 22,000	-		-		\$ 28,000	\$ 50,000
California	18	UNIT	SAN LUIS Canal	Transferred	support and reattach the rail to the abutment wall.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
		i			Pioneer Road Bridge - Clean the Pioneer Road Bridge deck	<u> </u>	. 55,000	. 22,300			l		. 20,000	. 50,000
	I	CVP, SAN LUIS	İ	I	expansion joints of debris and replace the failed expansion joint						1		İ	
California	18	UNIT	SAN LUIS Canal	Transferred	filler material.	C	\$ 50,000	\$ 22,500					\$ 27,500	\$ 50,000
	I	CVD CANILITY	İ	I	Poleline Road No. 1 Bridge - Clean the Poleline No. 1 Bridge						1		İ	
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	deck expansion joints of debris and replace the failed expansion joint filler material.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
Camornia	10	0.121	5.1. 2015 Canai	riansicited	Poleline Road No. 1 Bridge - Repair a 2 ft by 4 ft delaminated	Ŭ	50,000	22,000			l		20,000	50,000
	1	CVP, SAN LUIS		1	area in the Poleline Road No. 1 Bridge deck surface directly									
California	18	UNIT	SAN LUIS Canal	Transferred	above Pier 2.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
	i		<u> </u>	1	Poleline Road No. 1 Bridge - Repair the void behind the						1			
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	concrete lining at the left abutment of the Poleline Road No. 1 Bridge.	C	\$ 50,000	\$ 22,000			1		\$ 28,000	\$ 50,000
Camornia	10	UNII	SAIN LUIS Canai	ransierfed	Poleline Road No. 2 Bridge - Remove the asphalt overlay over	·	30,000	\$ 22,000					a 20,000	a 30,000 ·
	1	CVP, SAN LUIS		1	the Poleline Road Bridge deck joints and remove debris in									
California	18	UNIT	SAN LUIS Canal	Transferred	joints.	C	\$ 50,000	\$ 22,000			<u> </u>		\$ 28,000	\$ 50,000
		CVP, SAN LUIS		1	Remove loose concrete from the Yuba Avenue Bridge deck						1			
California	18	UNIT	SAN LUIS Canal	Transferred	surface and replace with a new concrete overlay.	C	\$ 50,000	\$ 22,000			l		\$ 28,000	\$ 50,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			
		ı	1	I T	T	MR&R		Reclamation	Appropriated			Non-Federal Financia	ng I	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		CVP, SAN LUIS			Repair anchorage concrete for railing (6 locations) and pipe hanger (1 location) at the TRAC-134 San Diego Avenue Bridge									
California	18	UNIT	SAN LUIS Canal	Transferred	at MP 121.97.	С	\$ 50,000	\$ 22,500					\$ 27,500	\$ 50,000 *
		CVP, SAN LUIS			Repair approach deterioration/surface depressions at the edge of									
California	18	UNIT	SAN LUIS Canal	Transferred	the bridge deck at Brannon Avenue Bridge.  Repair concrete at exposed reinforcing at Pier 2, Pier 3, and the	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
		CVP, SAN LUIS			left abutment at the TRAC-133 Dinuba Avenue Bridge at MP									
California	18	UNIT	SAN LUIS Canal	Transferred	118.49.  Repair concrete cracking/spalls at post anchorage at the TRAC-	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	139 Jeffrey Avenue Bridge at MP 139.35.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
		CVP, SAN LUIS			Repair concrete cracking/spalls at post anchorage at the TRAC-									
California	18	UNIT	SAN LUIS Canal	Transferred	140 Oakland Avenue Bridge at MP 141.57.  Repair damaged anchorage concrete at railing posts and replace	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
					railing post missing anchor rod and nut that attaches to the									
		CVP, SAN LUIS			concrete deck at the TRAC-133 Dinuba Avenue Bridge at MP	_								
California	18	UNIT	SAN LUIS Canal	Transferred	118.49. Repair damaged bridge rail and post anchorage cracked/spalled	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
		CVP, SAN LUIS			concrete at the TRAC-138 W. Excelsior (Parkhurst) Avenue									
California	18	UNIT	SAN LUIS Canal	Transferred	Bridge at 137.06.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
		CVP, SAN LUIS			Repair damaged or replace missing steel expansion joint armor at abutments and piers at the TRAC-142 Stutz Avenue Bridge at									
California	18	UNIT	SAN LUIS Canal	Transferred	MP 149.59.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
		CVP, SAN LUIS			Repair damaged or/replace missing steel expansion joint armor at both piers and the right abutment at the TRAC-135 San Mateo									
California	18	UNIT	SAN LUIS Canal	Transferred	Avenue Bridge at MP	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
C-1:6:	18	CVP, SAN LUIS UNIT	CAN LUIC Const	Townsferr 1	Repair deck spall at Pier 2 joint at the TRAC-134 San Diego	С	6 50,000	s 22,000					\$ 28,000	\$ 50,000 *
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	Avenue Bridge at MP 121.97.  Repair erosion around the chain link fence concrete foundation	C	\$ 50,000	s 22,000	<del>                                     </del>				a 28,000	s 50,000 <sup>8</sup>
California	18	UNIT	SAN LUIS Canal	Transferred	found at Check Structure #13 in order to stabilize the footings.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Repair erosion gully at Abutment 1, downstream side at the TRAC-134 San Diego Avenue Bridge at MP 121.97.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
Camoina	10	ONII	SAN LOIS Callai	Hansiened	TRAC-134 San Diego Avenue Bridge at Wr 121.97.		3 30,000	3 22,000					3 28,000	3 30,000
		CVP, SAN LUIS			Repair or replace damaged joint angles at deck expansion joints	_								
California	18	UNIT	SAN LUIS Canal	Transferred	for the TRAC-132 Lincoln Avenue Bridge at MP 113.82. Repair or replace the collapsed drain pipe located at MP 99.00,	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
		CVP, SAN LUIS			fill the rodent holes, and take measures to control the rodent									
California	18	UNIT	SAN LUIS Canal	Transferred	population in the area.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Repair spalled concrete w/exposed rebar at left u/s side abutment at the TRAC-139 Jeffrey Avenue Bridge	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
		CVP, SAN LUIS			Concrete repairs near Check Structure #15 and Check Structure									
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	#16. Repair the Yuba Avenue Bridge concrete spalling underneath	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
California	18	UNIT	SAN LUIS Canal	Transferred	the steel joint plates at expansion joints.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
		CVID CANLLING			Replace all failed and missing expansion joint material with new									
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	joint seal at the TRAC-133 Dinuba Avenue Bridge at MP 118.49.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
Cumomia	10			Tunisterred			50,000	22,000					20,000	50,000
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Replace missing and old expansion joint material with new joint seals at the TRAC-134 San Diego Avenue Bridge at MP 121.97.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
Camoina	10	ONII	SAN LOIS Callai	Hansiened	Replace old or missing expansion joint material with new joint		3 30,000	3 22,000					3 28,000	3 30,000
		CVP, SAN LUIS			seal at all piers and abutments at the TRAC-143 S. Siskiyou	_								
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	Avenue Bridge at MP Replace the cracked oil drum located near the 15.1 drain pump	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000
California	18	UNIT	SAN LUIS Canal	Transferred	and repair all erosion that is present in its vicinity.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
C-lifi	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	T	Replace the missing joint seal at Pier 2 with new joint seal at the		6 50,000	\$ 22,000					\$ 28,000	6 50,000
California	18	CVP, SAN LUIS		Transferred	42C0156 Jayne Avenue Bridge at MP 161.57.  San Diego Avenue Bridge - Hydro-remove and repair the	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
California	18	UNIT	SAN LUIS Canal	Transferred	surface of the bridge deck with an overlay.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	San Diego Avenue Bridge - Repair or replace the damaged left approach steel angle.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
Cumonna	.0		Dozo canar	- misicired	San Mateo Avenue Bridge - Repair concrete cracks and spalls		50,000	- 22,000					20,000	50,000
C-UE :	18	CVP, SAN LUIS	CANTLUIC C.	T C .	on the concrete canal channel lining protection near the San	C	6 50.000	\$ 22,000						6 50.000
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	Mateo Avenue Bridge left abutment.	C	\$ 50,000	s 22,000	<del>                                     </del>				\$ 28,000	\$ 50,000 *
California	18	UNIT	SAN LUIS Canal	Transferred	Seal the bridge deck at the TRAC-144 Bridge	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Repair drain pipes on San Luis Urban Canal segment	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
Сантоппіа	10	CVP, SAN LUIS		ransierred	Training Dike Operations Bridge - Replace the expansion joint						1		φ 28,000	
California	18	UNIT	SAN LUIS Canal	Transferred	filler material at the left pier location.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
	1	CVP, SAN LUIS	1		Volta Road Bridge - Clean the Volta Road Bridge deck expansion joints of debris and replace the failed expansion joint			1						
California	18	UNIT	SAN LUIS Canal	Transferred	filler material.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
		CVD CANILITIC			W. Shields Avenue Bridge - Remove debris from the W.									
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Shields Avenue Bridge deck expansion joints, replace the deck joint filler material and repair spalling at deck joints.	С	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
					Yuba Avenue Bridge - Repair or replace damaged metal bridge			,,,,,					-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transformed	railing on the upstream and downstream side of the Yuba Avenue Bridge.	C	\$ 50,000	\$ 22,000					\$ 28,000	\$ 50,000 *
Camornia	10	U.111	o. a. a. a. cons canar	riansicired	remac Druge.		9 50,000	μ 44,000	ı		L	L	φ 40,000	9 50,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	ng Categories*			
									Appropriated			Non-Federal Financi	ng	
				Transferred /		MR&R		Reclamation						
_	Congressional	Authorized		Reserved		Categorization	Estimated Total	Excluding Dam		Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	30th Avenue Bridge - Clean the 30th Avenue Bridge deck, approach expansion joints, and replace joint seals.		\$ 50,00	0 \$ 22,000					\$ 28,000	\$ 50,000
Camornia	16	UNII	SAN LUIS Canai	Transferred	30th Avenue Bridge - Repair spalls on the 30th Avenue Bridge	C	3 30,00	0 \$ 22,000	'				\$ 28,000	\$ 30,000
		CVP, SAN LUIS			deck near the downstream left abutment, at the left approach									
California	18	UNIT	SAN LUIS Canal	Transferred	joint, and near the downstream expansion joint.	С	\$ 50,00	0 \$ 22,000	, l				\$ 28,000	\$ 50,000
		CVP, SAN LUIS			Avenal Cutoff Road Bridge - Clean Avenal Cutoff Road Bridge									
California	18	UNIT	SAN LUIS Canal	Transferred	deck expansion joint and replace joint seal.	C	\$ 50,00	0 \$ 22,000	)				\$ 28,000	\$ 50,000
					Billy Wright Road Bridge - Clean the Billy Wright Road Bridge									
		CVP, SAN LUIS			deck expansion joints of debris and replace the failed expansion									
California	18	UNIT	SAN LUIS Canal	Transferred	joint filler material.	C	\$ 50,00	0 \$ 22,000	)				\$ 28,000	\$ 50,000
					Cerini Avenue Bridge - Clean, remove loose concrete, and									
					repair the bottom left abutment breast wall in order to guard									
C I'C '	18	CVP, SAN LUIS UNIT	CANTITUE C. I	T. C. 1	against further abrasion and rebar corrosion, for the Cerini			0 s 22.000					\$ 28,000	\$ 50,000
California	18	UNII	SAN LUIS Canal	Transferred	Avenue Bridge.  Clarkson Avenue Bridge - Clean the Clarkson Avenue Bridge	C	\$ 50,00	0 \$ 22,000	'				\$ 28,000	\$ 50,000
		CVP, SAN LUIS			deck expansion joints of debris and replace the joint seal and									
California	18	UNIT	SAN LUIS Canal	Transferred	filler material.	C	\$ 50,00	0 \$ 22,000	, l				\$ 28,000	\$ 50,000
Camonna	10	OMI	DAIN LOID Callai	Transferred	Clarkson Avenue Bridge - Repair deteriorated concrete lining	-	3 50,00	22,000	<u>'</u>				3 20,000	3 30,000
		CVP, SAN LUIS			upstream and downstream of the Clarkson Avenue Bridge left									
California	18	UNIT	SAN LUIS Canal	Transferred	abutment.	C	\$ 50,00	0 \$ 22,000	,				\$ 28,000	\$ 50,000
		1			Clarkson Avenue Bridge - Repair upstream and downstream		30,00							. 20,000
		CVP, SAN LUIS			erosion areas under the left and right approach slab at the								1	
California	18	UNIT	SAN LUIS Canal	Transferred	Clarkson Avenue Bridge.	C	\$ 50,00	0 \$ 22,000	)				\$ 28,000	\$ 50,000
					Ĭ	1		,,,,,,	1		1		.,	,
		CVP, SAN LUIS			DAPP Mount guardrails on the roof at the top of the roof access						1			
California	18	UNIT	SAN LUIS Canal	Transferred	ladders and extend the guardrails for at least 10' on each side.	C	\$ 50,00	0 \$ 22,500	)				\$ 27,500	\$ 50,000
					Manning Avenue Bridge - Clean deck expansion joints of									
					debris, replace deteriorated joint filler material, and repair the									
		CVP, SAN LUIS			loose steel angle plate between Spans 1 and 2, from the left									
California	18	UNIT	SAN LUIS Canal	Transferred	abutment of the Manning Avenue Bridge	C	\$ 50,00	0 \$ 22,000	)				\$ 28,000	\$ 50,000
		ONT. 0 . 3 . 7 . 7 . 7 . 7			Manning Avenue Bridge - Repair the deteriorated asphalt									
0.110	4.0	CVP, SAN LUIS UNIT	CANTITUE C. I		concrete overlay at the left approach of the Manning Avenue Bridge	C			.					
California	18	CVP, SAN LUIS	SAN LUIS Canal	Transferred	Mt. Whitney Avenue Bridge - Clean Mt. Whitney Avenue	C	\$ 50,00	0 \$ 22,500	)		ļ		\$ 27,500	\$ 50,000
California	18	UNIT	SAN LUIS Canal	Transferred	Bridge deck expansion joints and replace joint seals.	C	\$ 50,00	0 \$ 22,000	,				\$ 28,000	\$ 50,000
Camornia	10	CVP, SAN LUIS	SAN EUIS Caliai	Halistelled	N. Russell Avenue Bridge - Clean the N. Russell Avenue deck	C	3 30,00	0 3 22,000	<u>'</u>		1		3 20,000	3 30,000
California	18	UNIT	SAN LUIS Canal	Transferred	expansion joints of debris and replace seal joints.	С	\$ 50,00	0 \$ 22,000	, l				\$ 28,000	\$ 50,000
Camorina	10	CVP, SAN LUIS	DAIN LOID Callai	Transferred	Panoche Road Bridge - Clean the Panoche Road Bridge deck	-	3 50,00	22,000	<u> </u>				3 20,000	3 30,000
California	18	UNIT	SAN LUIS Canal	Transferred	expansion joints of debris and replace joint filler material.	C	\$ 50,00	0 \$ 22,000	,				\$ 28,000	\$ 50,000
		CVP, SAN LUIS			Panoche Road Bridge - Repair broken steel joint angle plate						1			
California	18	UNIT	SAN LUIS Canal	Transferred	between spans 1 and 2 of the Panoche Road Bridge.	С	\$ 50,00	0 \$ 22,000	, l				\$ 28,000	\$ 50,000
					Panoche Road Bridge - Repair the right approach pothole, and									
		CVP, SAN LUIS			seal the alligator cracks at both approaches, for the Panoche									
California	18	UNIT	SAN LUIS Canal	Transferred	Road Bridge.	C	\$ 50,00	0 \$ 22,000	)				\$ 28,000	\$ 50,000
		CVP, SAN LUIS			Plymouth Avenue Bridge - Clean the Plymouth Avenue Bridge									
California	18	UNIT	SAN LUIS Canal	Transferred	deck expansion joints and replace joint seals.	C	\$ 50,00	0 \$ 22,000	)				\$ 28,000	\$ 50,000
		CVP, SAN LUIS			Poleline Road No. 1 Bridge - Replace all the Poleline Road No.									
California	18	UNIT	SAN LUIS Canal	Transferred	Bridge elastomeric bearings and built-up concrete pedestals.	С	\$ 50,00	0 \$ 22,000	)				\$ 28,000	\$ 50,000
		CVP, SAN LUIS			Quail Avenue Bridge - Clean the Quail Avenue Bridge deck,	_								
California	18	UNIT	SAN LUIS Canal	Transferred	and approach expansion joints, and replace joint seals.	С	\$ 50,00	0 \$ 22,000	'		1		\$ 28,000	\$ 50,000
C-UC :	10	CVP, SAN LUIS UNIT	CANTILLEC	T C .	Repair cracked and spalled anchorage concrete at three railing	С			, I				6 20.000	\$ 50,000
California	18	UNII	SAN LUIS Canal	Transferred	posts at the 42C0156 Jayne Avenue Bridge at MP 161.57.	C	\$ 50,00	0 \$ 22,000	<u>'</u>		<b> </b>	1	\$ 28,000	a 50,000
		CVP, SAN LUIS			San Mateo Avenue Bridge - Clean the San Mateo Avenue Bridge deck expansion joints of debris and replace the failed								1	
California	18	UNIT	SAN LUIS Canal	Transferred	expansion joint filler	C	s 50.00	0 s 22.000	, I		1		\$ 28.000	\$ 50,000
Сантогніа	18	CVP, SAN LUIS	D. LA LOID CHIM	riansierred	Repair metal bridge towers Metering Bridge located at MP	, c	30,00	U 9 22,000	<u>'</u>		<b>†</b>	1	y 20,000	a 50,000
California	18	UNIT	SAN LUIS Canal	Transferred	172.25	С	\$ 25,00	0 \$ 11,000					\$ 14,000	\$ 25,000
	1	† · · · ·			Remove the solid waste debris and woody vegetation from the	<u> </u>	25,00	11,000	1		1	1	1,,000	. 25,000
		CVP, SAN LUIS			outlet channel of the Little Panoche Creek underdrain outlet at						1			
California	18	UNIT	SAN LUIS Canal	Transferred	MP 96.56 and post signage.	С	\$ 25,00	0 \$ 11,000			1		\$ 14,000	\$ 25,000
		CVP, SAN LUIS			Repair the damaged concrete headwall at the Little Panoche	İ		1			İ		,,,,,	2,000
California	18	UNIT	SAN LUIS Canal	Transferred	Creek Underdrain (MP 96.56 Right))	C	\$ 25,00	0 \$ 11,000	)		1		\$ 14,000	\$ 25,000
					Repair outside embankment at MP 96.58, left bank.extend the									
					drain outfall to the bottom of the slope via a slope drain that wil	I I							1	
					outfall onto a riprap splash pad, and install a filter berm at the		1	1			1		I	
					drain inlet in order to prevent, or minimize, the washing out of		1	1			1		I	
		CVP, SAN LUIS		1_	maintenance road aggregate. Replace maintenance road		l_	. [ .						_
California	18	UNIT	SAN LUIS Canal	Transferred	aggregate, as necessary.	C	\$ 25,00	0 \$ 11,000	)		ļ		\$ 14,000	\$ 25,000
		over a vicini			Replace all fasteners on the expansion coupling located in the						1			
0.110	4.0	CVP, SAN LUIS	CANTAINC C	m	Unit #3 Expansion Joint Vault at the Dos Amigos Pumping				.1					
California	18	UNIT	SAN LUIS Canal	Transferred	Plant.  Partors the Little Beneath Creek underdrein outlet at MR 06 56	С	\$ 25,00	0 \$ 11,250	'		1	1	\$ 13,750	\$ 25,000
					Restore the Little Panoche Creek underdrain outlet at MP 96.56 (Left) by removing the sediment that is blocking the outlet end		1	1			1		I	
					of each of the three barrels of the concrete box culvert and						1			
		CVP, SAN LUIS			restoring each of the three barrels to their originally designed		1	1			1		I	
California	18	UNIT	SAN LUIS Canal	Transferred	cross sectional area of 5' wide by 6' high.	С	\$ 25,00	0 S 11.000	ıl		1		\$ 14,000	\$ 25,000
_umoinid	10	1	LOW Canal	a ransiencu	one area or o mac by o migh.		- 25,00	_ Ψ 11,000	1		1	1	- 17,000	- 25,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			İ
			T	Transferred /	1	MR&R	1	Reclamation	Appropriated			Non-Federal Financia	ng	
	Congressional	Authorized		Reserved		Categorization	Estimated Total	<b>Excluding Dam</b>		Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed  Avenal Cutoff Bridge Inspection (Milepost 164.40) - Repair	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
					spall on the right approach AC pavement and seal transverse									i
		CVP, SAN LUIS			cracks on the left and right approach AC pavement to prevent									i
California	18	UNIT	SAN LUIS Canal	Transferred	subbase material from eroding.	С	\$ 20,000	\$ 9,000					\$ 11,000	\$ 20,000
					Perform necessary maintenance at the Los Banos Creek Inlet (MP 79.02 Right) by cleaning the corrosion from the metal									i
					handrails and then recoating the metal handrails, removing the									
					tumbleweeds that are blocking the six barrel concrete box									i
					culvert inlets, removing the vegetation growing against the									
		OT TO 0			headwall, and filling and compacting the voids that have formed	l								i
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	immediately adjacent to the upstream edge of the concrete apron in front of the Inlet.	C	\$ 20,000	\$ 9,000					\$ 11,000	\$ 20,000
Camorina	10	CVP, SAN LUIS	DAIN EOID Canai	Hansterred	Place an overlay over the exposed reinforcing steel on the left	Č	3 20,000	3 2,000					\$ 11,000	3 20,000
California	18	UNIT	SAN LUIS Canal	Transferred	span of Stutz Avenue Bridge, Mile Post 149.59 Left.	С	\$ 20,000	\$ 9,000					\$ 11,000	\$ 20,000
					Provide compliant battery room automatic smoke detection									
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	system and associated system supervision at the Dos Amigos Pumping Plant.	В	\$ 20,000	\$ 20,000						\$ 20,000
Camornia	10	CVP, SAN LUIS	SAN LOIS Callai	Hanstelleu	Remove abandoned wiring, cables, etc. at the Dos Amigos	ь	3 20,000	3 20,000						\$ 20,000
California	18	UNIT	SAN LUIS Canal	Transferred	Pumping Plant.	D	\$ 20,000	\$ 20,000						\$ 20,000
					Repair the erosion damage that has occurred at MP 109.98									
					(Right) due to the recent repair of the fiber optic cable									ı
		CVP. SAN LUIS			conducted by MCI. Fill, compact, and stabilize the area of erosion in accordance with Reclamation's Design of Small Cana	1								i
California	18	UNIT	SAN LUIS Canal	Transferred	Structures.	c c	\$ 20,000	\$ 9,000					\$ 11,000	\$ 20,000
					Repair the erosion holes located on the inside slope of the right		20,000	7,000						,
0.110		CVP, SAN LUIS			embankment, MP72.11, at the interface of the utility bracing	_								
California	18	UNIT	SAN LUIS Canal	Transferred	pipes and the concrete anchors.	С	\$ 20,000	\$ 9,000					\$ 11,000	\$ 20,000
		CVP, SAN LUIS			At all nine Check Structures, repair any new leakage from the gate hoist motors, and gearboxes. Cleanup any grease or oil									İ
California	18	UNIT	SAN LUIS Canal	Transferred	found on the check structures.	С	S 15,000	\$ 7,000					\$ 8,000	\$ 15.000
					Backfill and compact the voids that are present at the interface									
					of the concrete canal liners and the concrete walls of the check									
					structures. The voids are identified as follows:(1) Check #15									i
					(MP 108.50), right side upstream from the check structure.(2) Check #16 (MP 122.07), left side upstream from the check									
					structure.(3) Check #19 (MP 155.64), right side upstream from									
					the check structure.(4) Check #20 (MP 164.69), left side									i
					upstream from the check structure. After backfill and									
		CVP, SAN LUIS			compacting, seal the gaps that exist at the Canal liner / check									ı
California	18	UNIT	SAN LUIS Canal	Transferred	structure interfaces.	С	\$ 15,000	\$ 7,000					\$ 8,000	\$ 15,000
					Remove all tar coating from the steel and sand blast the steel to remove rust and re-coat in the section of the steel lining									i
					immediately following the scroll case, the chunk of steel									1
					exposed below the siphon breaker house, and 2' x 3' section									1
		CVP, SAN LUIS			located at six, eight, ten and eleven O'clock below the siphon									i
California	18	UNIT	SAN LUIS Canal	Transferred	breaker for unit 5.	С	\$ 15,000	\$ 6,750					\$ 8,250	\$ 15,000
					Remove the trees growing at MP 82.15, left bank, (two almond									i
					trees on outside slope of left embankment), MP 97.50, left bank, (mature trees adjacent to turnout building atop canal	,								i
					embankment), and MP 152.35, right bank, (large tree on toe of									1
					slope, outside edge of embankment). After removal of the trees,									1
		CVP, SAN LUIS			backfill and compact the void spaces left by removal of the root									1
California	18	UNIT	SAN LUIS Canal	Transferred	balls.	C	\$ 15,000	\$ 6,750					\$ 8,250	\$ 15,000
					Clean and re-coat the discharge tube's stiffener ring, gland bolts,						1			
		CVP. SAN LUIS			gland, gland sleeve, outer sleeve and the bolts and flange used to support the rubber wall seal located in the Expansion Joint Vaul	7					1			
California	18	UNIT	SAN LUIS Canal	Transferred	on unit 5.	C	\$ 12,000	\$ 5,400			1		\$ 6,600	\$ 12,000
		CVP, SAN LUIS			Repair anchorage concrete at guard railing posts at the TRAC-						İ			
California	18	UNIT	SAN LUIS Canal	Transferred	135 San Mateo Avenue Bridge at MP 130.81.	С	\$ 10,000	\$ 4,000			ļ		\$ 6,000	\$ 10,000
					Repair severe erosion damage to the outside of the left canal						i			, 7
		CVP, SAN LUIS			bank immediately upstream from the Little Panoche Creek three barreled culvert discharge portal at MP 96.56, including repairs	1					l			, I
California	18	UNIT	SAN LUIS Canal	Transferred	barreled culvert discharge portal at MP 96.56, including repairs to the broken drain pipe at that location.	С	\$ 10,000	\$ 4,000			l		\$ 6,000	\$ 10,000
camornia	10	CVP, SAN LUIS		ransicited	Repair and recoating work at Little Panoche Creek Drain inlet		10,000	+,000			<del> </del>		5,000	J 10,000
California	18	UNIT	SAN LUIS Canal	Transferred	structure, located at MP 96.57 (Right)	С	\$ 10,000	\$ 4,000			<u> </u>	<u> </u>	\$ 6,000	\$ 10,000
		CVP, SAN LUIS												
California	18	UNIT	SAN LUIS Canal	Transferred	Fill and compact Canal embankment	С	\$ 10,000	\$ 4,000			<b>.</b>	1	\$ 6,000	\$ 10,000
		CVP, SAN LUIS			Properly ground all the transformer/equipment cages and their doors located inside the Dos Amigos Pumping Plant in						l			, I
California	18	UNIT	SAN LUIS Canal	Transferred	accordance with NEC 70 Article 250.190.	Е	\$ 10,000	\$ 10,000			l			\$ 10,000
		CVP, SAN LUIS	L. L. DOID Canal	- Tumbrened	Electrical maintenance and upgrades at the Dos Amigos	-	2 10,000	- 13,000			i			- 10,000
California	18	UNIT	SAN LUIS Canal	Transferred	Pumping Plant	C	\$ 10,000	\$ 10,000			<u> </u>	<u> </u>	<u> </u>	\$ 10,000
		CVP, SAN LUIS			Tree removal at right canal bank at MP 164.51 and on the									
California	18	UNIT	SAN LUIS Canal	Transferred	outside of the left canal bank at MP 169.03	С	\$ 10,000	\$ 4,500			ļ		\$ 5,500	\$ 10,000
C-lie :	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Repair concrete joint filler material at the Panoche Creek Siphor inlet at Canal MP 108.7.	1	S 10,000	s 4,500			l		\$ 5,500	\$ 10,000
California	18	CVP, SAN LUIS	SAIN LUIS Cânai	1 ransferred	Inlet at Canal MP 108.7.  Repair joint seal at concrete-to-steel transition joint in Discharge	C	\$ 10,000	\$ 4,500	1		1	1	a 5,500	\$ 10,000
California	18	UNIT	SAN LUIS Canal	Transferred	Pipe No. 3 at the Dos Amigos Pumping Plant.	D	\$ 10,000	\$ 10,000			l			\$ 10,000
							. 10,000	10,000						

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Appendix

										Fundin	g Categories*			
									Appropriated	runum	g Categories	Non-Federal Financin	g	
				Transferred /		MR&R		Reclamation		0.1	_			T
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District		1135CC 11tillic	110113	Repair or replace all damaged and/or missing security fencing	Kuting	Costs	Surety	Surety	rtutim	rimmeing	water esers	T ut the to	MARCEL TOUR
		CVP, SAN LUIS			and safety chains located at each of the nine (9) check									
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	structures. Repair ruts at the right canal bank upstream from Check No. 20	С	\$ 10,000	\$ 4,000					\$ 6,000	\$ 10,000 *
California	18	UNIT	SAN LUIS Canal	Transferred	caused by contractor's vehicles.	С	\$ 10,000	s 4,000					\$ 6,000	\$ 10,000 *
		CVP, SAN LUIS			Replace the asphalt approaches at the TRAC-130 Ashlan			, , , , ,						
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	Avenue Bridge at MP 99.16.	С	\$ 10,000	\$ 4,000					\$ 6,000	\$ 10,000 *
California	18	UNIT	SAN LUIS Canal	Transferred	Replace the expansion joint filler material for the expansion joints located in the center of Check #15 and Check #17	С	\$ 10,000	\$ 4,000					\$ 6,000	s 10.000 *
		CVP, SAN LUIS			Concrete seal and repair on the right side concrete wall									
California	18	UNIT	SAN LUIS Canal	Transferred	downstream from Check#17	С	\$ 10,000	\$ 4,000					\$ 6,000	\$ 10,000 *
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Concrete spot work and install monitoring points and markers.	C	\$ 10,000	\$ 4,000					\$ 6,000	\$ 10,000 *
Cumomu	10	0.11.	Drift Bold Cultur	Transferred	Treat the deck with Methacrylate and overlay the deck with an	Ü	10,000	1,000					5,000	10,000
		CVP, SAN LUIS			appropriate cementitious wearing surface for the TRAC-132									
California	18	UNIT	SAN LUIS Canal	Transferred	Lincoln Avenue Bridge at MP 113.82. Replace wooden cable guide boards on the upstream face of the	С	\$ 7,000	\$ 3,000					\$ 4,000	\$ 7,000 *
		CVP, SAN LUIS			four radial gates at Check #13 (MP 70.88) with new guide									
California	18	UNIT	SAN LUIS Canal	Transferred	boards.	С	\$ 5,000	\$ 2,000					\$ 3,000	\$ 5,000 *
		CVP, SAN LUIS	]		Avenal Cutoff Bridge Inspection (Milepost 164.40) - Clean all									
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	debris from the expansion joints and replace the expansion joint filler material as needed.	С	\$ 5,000	\$ 2,000					\$ 3,000	\$ 5,000 *
Cantonna	10	OIVII	SAIV LOIS Canai	Transferred	Institute a comprehensive discharge pipe analytical inspection	Č	3,000	\$ 2,000					3 3,000	5,000
					program that complies with FIST Volume 2-8, Section 1.2									
					(subparagraphs 1 through 7) and Section 1.4, to ensure that the Dos Amigos Pumping Plant discharge pipes continue to be									
		CVP. SAN LUIS			operated safely, efficiently, and that the discharge pipes remain									
California	18	UNIT	SAN LUIS Canal	Transferred	well maintained.	С	\$ 5,000	\$ 5,000						\$ 5,000 *
					Institute a comprehensive training program at Dos Amigos									
					Pumping Plant to ensure plant personnel are informed about the proper operation and maintenance of the CO2 system and									
		CVP, SAN LUIS			should comply with the requirements of FIST Volume 5- 12,									
California	18	UNIT	SAN LUIS Canal	Transferred	Section14.	В	\$ 5,000	\$ 5,000						\$ 5,000 *
		CAMP CANTILLIE			Properly ground the fencing and gates surrounding the unit									
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	transformer deck at the Dos Amigos Pumping Plant in accordance with NEC 70 Article 250.190	C	s 5,000	s 5.000						s 5,000 *
Camorna				Transferred	Properly run the conductors feeding the permanent sump pumps		2,000	5,000						5,000
					located in the guide bearing room of units 2,4,5 and 6 at the Dos									
		CVP, SAN LUIS			Amigos Pumping Plant and the compressor air dryers located in									
California	18	UNIT	SAN LUIS Canal	Transferred	the siphon house, through appropriate conductor conduits per NEC.	С	\$ 5,000	\$ 5,000						\$ 5,000 *
		CVP, SAN LUIS			Repair the insulation on main transformers buswork at the Dos									
California	18	UNIT	SAN LUIS Canal	Transferred	Amigos Pumping Plant. Seal (fire stop system) all openings around penetrations for	В	\$ 5,000	\$ 5,000						\$ 5,000 *
					conduits, pipes, tubes, vents and similar items to accommodate									
					electrical, mechanical, plumbing, and communications systems									
		CVP, SAN LUIS			that pass through the battery room wall, floor, or ceiling at the	_								
California	18	UNIT	SAN LUIS Canal	Transferred	Dos Amigos Unit 5 discharge tube, clean/repair and recoat the steel lining	В	\$ 5,000	\$ 5,000						\$ 5,000 *
					immediately following the scroll case, steel exposed below the									
		CVP, SAN LUIS			siphon breaker house, and 2'x3' sections located at six, eight, ten									
California	18	UNIT	SAN LUIS Canal	Transferred	and eleven o'clock below the siphon breaker.  Update job plans with the portable GFCI plugs to be used when	С	\$ 5,000	\$ 2,250					\$ 2,750	\$ 5,000
	1	CVP, SAN LUIS	1	ı	using the portable generators, welders and 480 receptacles at the			]						
California	18	UNIT	SAN LUIS Canal	Transferred	Dos Amigos Pumping Plant.	С	\$ 5,000	\$ 5,000						\$ 5,000 *
			<u> </u>		The fasteners around the Unit 2 expansion coupling vault should					·				
	1	CVP, SAN LUIS	1	ı	be replaced in kind and coated to prevent further corrosion from the humid environment of the coupling vault at the Dos Amigos			]						
California	18	UNIT	SAN LUIS Canal	Transferred	Pumping Plant.	С	\$ 3,000	\$ 1,350					\$ 1,650	\$ 3,000
		CVP, SAN LUIS					_						_	_
California	18	UNIT	SAN LUIS Canal	Transferred	Replace confined space entry signs At check 16, MP 122.07, seal the longitudinal crack along the	С	\$ 2,000	\$ 900					\$ 1,100	\$ 2,000 *
	1	CVP, SAN LUIS	1	ı	right downstream transition wall and monitor the joint for			]						
California	18	UNIT	SAN LUIS Canal	Transferred	movement.	С	\$ 2,000	\$ 900					\$ 1,100	\$ 2,000 *
			]		At the Poleline Road (No.2) Bridge (Canal MP 90.72), replace									
	1	CVP, SAN LUIS	1	ı	the missing and damaged steel anchor bolts with new anchor bolts designed to resist current minimum loads as defined by			]						
California	18	UNIT	SAN LUIS Canal	Transferred	Caltrans' current bridge design specifications.	С	\$ 2,000	\$ 900					\$ 1,100	\$ 2,000 *
		OV 170 O	1		Clean and recoat the interior of both steel vertical siphon			]						
California	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	breaker connections within the unit 4 discharge pipe on the Dos Amigos Pumping Plant.	A	\$ 2,000	\$ 900					\$ 1,100	\$ 2,000
Cambina	10	CVP, SAN LUIS	5. 1.4 LOIS Callal	ransieried	rangos ramping riant.	А	2,000	900					y 1,100	2,000
California	18	UNIT	SAN LUIS Canal	Transferred	Repairs at the Arroyo Pasajero evacuation inlet.	С	\$ 2,000	\$ 1,000					\$ 1,000	\$ 2,000 *
C-1:6	18	CVP, SAN LUIS UNIT	SAN LUIS Canal	Transferred	Repair spalls and incipient spalls at abutment faces at the	C	\$ 1,000	\$ 450		·			\$ 550	\$ 1,000 *
California	18	UNII	SAIN LUIS Canal	ransferred	42C0425 West Gale Avenue Bridge at MP 158.45.  Dos Amigos Pumping Plant - Remove corroded and unused	C	s 1,000	a 450					a 550	s 1,000 *
		CVP, SAN LUIS		1	piezometer gauges that are located in the gallery in-between									
California	18	UNIT	SAN LUIS Canal	Transferred	Units 2 & 3.	C	\$ 1,000	\$ 450					\$ 550	\$ 1,000

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Bureau of Rectamation	DL
Asset Management Report	Pub
List of Major Rehabilitation and Replacement Activities FY 2021-2050	

			ı	T	T	MR&R	1	Reclamation	Appropriated			Non-Federal Financia	g	
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		CVP, SAN LUIS			Properly cap, insulate or terminate the loose wires in accordance									
California	18	UNIT CVP, SAN LUIS	SAN LUIS Canal	Transferred	with NEC 2014 or remove the wires if no longer needed.	D	\$ 1,000	\$ 450					\$ 550	\$ 1,000
California	18	UNIT CVP, SAN LUIS	SAN LUIS DIKE	Transferred	Variable Speed Drives and Switchyard Improvements	E	\$ 2,000,000						\$ 1,800,000	\$ 1,800,000 *
California	18	UNIT	SAN LUIS DIKE	Transferred	Pump (2) Rebuild	С	\$ 2,000,000						\$ 1,000,000	\$ 1,000,000 *
California	18	CVP, SAN LUIS UNIT	SAN LUIS DIKE	Transferred	Priority 1 Fire Protection Improvements	С	\$ 500,000						\$ 200,000	\$ 200,000 *
California	19		MADERA IRRIGATION DISTRICT	Transferred	Removal of sediment/debris from pipelines, siphons, and structures.	E	\$ 1,950,000						\$ 1,700,000	\$ 1,700,000 *
California	19		MADERA IRRIGATION DISTRICT	Transferred	John A. Franchi Diversion Dam: Replace of two large roller gates, gate actuators, supporting electrical panels, and stop logs.	A	S 410,000						\$ 200.000	\$ 200,000 *
Camorina	17	CVP,	DISTRICT	Hansierieu	gates, gate actuators, supporting electrical paners, and stop rogs.	A	3 410,000	1					\$ 200,000	3 200,000
California	19	MISCELLANEOU S PROJECTS	NEW MELONES DAM	Reserved	Surge Tank Access Road Repair	E	\$ 2,000,000				\$ 2,000,000			\$ 2,000,000 *
California	19	CVP, MISCELLANEOU S PROJECTS	NEW MELONES POWERPLANT	Reserved	Replace the 34 year old stator windings, stator cores, rotor windings, heaters and miscellaneous protection and metering equipment for generators.	A	\$ 24,120,000				\$ 23,639,280			\$ 23,639,280 *
		CVP, MISCELLANEOU	NEW MELONES											
California	19	S PROJECTS CVP,	POWERPLANT	Reserved	Replace K1A / K2A Transformers	A	\$ 20,000,000				\$ 20,000,000			\$ 20,000,000 *
California	19	S PROJECTS	NEW MELONES POWERPLANT	Reserved	Replace U1 and U2 13.8 KV Breakers	С	\$ 12,910,000				\$ 12,910,000			\$ 12,910,000 *
California	19	CVP, MISCELLANEOU S PROJECTS	NEW MELONES POWERPLANT	Reserved	HVAC and Fire Alarm Upgrades	A	\$ 5,000,000				\$ 5,000,000			\$ 5,000,000 *
California	19	CVP, MISCELLANEOU S PROJECTS CVP.	NEW MELONES POWERPLANT	Reserved	Station Service Replacement	В	\$ 2,400,000				\$ 2,400,000			\$ 2,400,000 *
California	19	MISCELLANEOU S PROJECTS	NEW MELONES POWERPLANT	Reserved	Replace New Melones Power Plant Distribution 480V.		s 430,000					\$ 430,000		\$ 430.000 *
Camomia	19	CVP,		Reserved		A	3 430,000					3 430,000		\$ 430,000
California	19	MISCELLANEOU S PROJECTS	NEW MELONES POWERPLANT	Reserved	Replace New Melones Powerplant Station Service and UPS Batteries	В	\$ 108,000				\$ 108,000			\$ 108,000 *
California	19	CVP, MISCELLANEOU S PROJECTS	NEW MELONES POWERPLANT	Reserved	Replace New Melones Powerplant UPS Battery	В	\$ 50,000				\$ 50,000			\$ 50,000 *
California	19	DELTA DIVISION, CVP	VEHICLE AND MATERIAL STORAGE AT MENDOTA	Reserved	At the Delta Mendota Canal near Check 21: Demolish the abandoned storage building.	С	\$ 100,000	\$ 100,000						\$ 100,000 *
California	19	SOLANO PROJECT	NEW MELONES RECREATION	Reserved	Design and Replace water distribution system at Tuttletown and Glory Hole Recreation area's.	Α	\$ 2,200,000	\$ 2,200,000						\$ 2,200,000 *
California	19	SOLANO PROJECT	NEW MELONES RECREATION	Reserved	Extend Wastewater Force Main from Iron Horse Camp grounds	A	\$ 1,750,000	\$ 1.750,000						\$ 1,750,000 *
		SOLANO	NEW MELONES				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,						, , , , , , ,
California	19	PROJECT SOLANO	RECREATION NEW MELONES	Reserved	Upgrade entrance Stations at Tuttletown and Glory Hole	D	\$ 1,545,045	\$ 1,545,045						\$ 1,545,045 *
California	19	PROJECT SOLANO	RECREATION NEW MELONES	Reserved	Extend Fish Cleaning Station Utilities & Construct	D	\$ 375,000	\$ 375,000						\$ 375,000 *
California	19	PROJECT	RECREATION	Reserved	Inspect and Replace Power Poles & Transformers at Tuttletown & Glory Hole Rec Areas	С	\$ 370,000	\$ 370,000						\$ 370,000 *
California	20	CACHUMA PROJECT	GLEN ANNE DAM and RESERVOIR	Transferred	Glen Anne Reservoir Rehabilitation Project for seismic stability	A	\$ 33,500,000						\$ 33,500,000	\$ 33,500,000 *
California	20	CACHUMA PROJECT	GLEN ANNE DAM and RESERVOIR	Transferred	Revise the Standing Operating Procedures	E	\$ 10,000						\$ 10,000	\$ 10,000 *
California	20	CACHUMA PROJECT	GLEN ANNE DAM and RESERVOIR	Transferred	Revise the Standing Operating Procedures (SOP) to include a description of the outlet works intake structure's current configuration.	Е	\$ 10,000						\$ 10,000	\$ 10,000 *
		CVP, MISCELLANEOU			Repair the bridge abutments on the Madera Canal bridges located at MP 33.16 and MP 34.50 by filling the areas of undermining and armoring the structures with riprap to prevent									
California	20	S PROJECTS CVP,	MADERA CANAL	Transferred	future erosion.  Replace the deteriorating wood beam, serving as the bent cap,	D	\$ 50,000						\$ 50,000	\$ 50,000 *
California	20	MISCELLANEOU S PROJECTS CVP.	MADERA CANAL	Transferred	on the eighth pile bent from the left river bank of the Fresno River Bridge	С	\$ 20,000						\$ 20,000	\$ 20,000 *
California	20	MISCELLANEOU S PROJECTS	SHAFTER WASCO IRRIG DIST	Transferred	Cover the open pit areas at Lateral 137.2 Head-Works on the Shafter-Wasco Irrigation District System.	D	\$ 20,000						\$ 20,000	\$ 20,000 *
California	20	CVP, MISCELLANEOU S PROJECTS	SHAFTER WASCO IRRIG	Transferred	Install confined space signage at Lateral 134.4, High Pressure Valve Vault on the Shafter-Wasco Irrigation District System.	D	\$ 2,000						\$ 2,000	\$ 2,000 *
California	20	CVP, SAN LUIS UNIT	CA DWR COALINGA OPERATIONS and MAINT OFFICE	Transferred	Coalinga Fire Safety Modernization	A	\$ 2,985,000	\$ 563,000					\$ 687,000	\$ 1,250,000

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											Fundir	g Categories*			]
	1	ı	I	Transferred /		MR&R			Reclamation	Appropriated			Non-Federal Financi	ng I	1
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating		mated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	Troject	CA DWR COALINGA	1101113	Brief Bescription of Work Accueu	runng		Costs	Surety	Surety	reacran	1 muncing	Water Caera	runners	Mark Total
		CVP, SAN LUIS	WATER TREATMENT	1		_	_								
California	20	UNIT CVP, SAN LUIS	PLANT PLEASANT VALLEY	Transferred	Water Treatment Plant Replacement  Perform an arc flash study and label all electrical equipment that	С	\$	477,000	\$ 215,000					\$ 262,000	\$ 477,000
California	20	UNIT	PUMPING PLANT	Transferred	contains live parts	С	s	10,000						\$ 10.000	s 10.000
		CVP, SAN LUIS	PLEASANT VALLEY		Re-circuit the exhaust fan wiring in the battery room at the										
California	20	UNIT	PUMPING PLANT	Transferred	Pleasant Valley Pumping Plant.	E	\$	10,000						\$ 10,000	\$ 10,000
California	20	CVP, SAN LUIS UNIT	PLEASANT VALLEY PUMPING PLANT	Transferred	Replace Main Storage Battery cell 16, 17, & 18 due to cracked	Е	\$	10,000						\$ 10,000	\$ 10,000
Camorina	20	CVP, SAN LUIS	PLEASANT VALLEY	Hansterred	Install whip checks on all service air hookups inside and outside	L	3	10,000						5 10,000	3 10,000
California	20	UNIT	PUMPING PLANT	Transferred	the Pleasant Valley Pumping Plant.	D	\$	5,000						\$ 5,000	\$ 5,000
		CVP, SAN LUIS	PLEASANT VALLEY		Perform a pressure vessel test on the sewage ejector tank located										
California	20	UNIT	PUMPING PLANT	Transferred	in the Oil Room on Level #1 of the plant at the Pleasant Valley Pumping Plant.	Е	s	5,000						\$ 5,000	\$ 5,000
Cumomia	20		I CHI I TO I EL II I	Timbreired	Perform corrective actions on the grounding system on the new			2,000						3,000	5,500
		CVP, SAN LUIS	PLEASANT VALLEY		section of the chain-link fence at the Pleasant Valley Pumping										
California	20	UNIT CVP, SAN LUIS	PUMPING PLANT PLEASANT VALLEY	Transferred	Plant.  Re-circuit all non-NEC compliance EXIT and emergency lights	С	\$	5,000					-	\$ 5,000	\$ 5,000
California	20	UNIT	PUMPING PLANT	Transferred	at the Pleasant Valley Pumping Plant	D	s	5,000						\$ 5,000	\$ 5,000
		CVP, SAN LUIS	PLEASANT VALLEY		Replace vent caps and remove excess/dried up electrolyte spills										
California	20	UNIT	PUMPING PLANT	Transferred	on top of the batteries.	E	\$	5,000	ļ	ļ			ļ	\$ 5,000	\$ 5,000
California	20	CVP, SAN LUIS UNIT	PLEASANT VALLEY PUMPING PLANT	Transferred	Replace all shop and outdoor power receptacles	С	9	3,000	]				ĺ	\$ 3,000	\$ 3,000
Сатногна	40	CVP, SAN LUIS	PLEASANT VALLEY	riansierred	Cover the battery terminals and inter-cell connectors at the	· ·	,	3,000	<del> </del>	<u> </u>		<b>-</b>	<del> </del>	9 3,000	5,000
California	20	UNIT	PUMPING PLANT	Transferred	Pleasant Valley Pumping Plant.	E	\$	2,000	<u> </u>	<u> </u>			<u> </u>	\$ 2,000	\$ 2,000
0.115	-	CVP, SAN LUIS	PLEASANT VALLEY			_	•		]						
California	20	UNIT CVP. SAN LUIS	PUMPING PLANT PLEASANT VALLEY	Transferred	Fan repair at the Pleasant Valley Pumping Plant.	E	S	2,000	-	-		1	<del>                                     </del>	\$ 2,000	\$ 2,000
California	20	UNIT	PUMPING PLANT	Transferred	Install a hydrogen (H2) gas detector/alarm at the battery room	D	s	1,000	]				ĺ	\$ 1,000	\$ 1,000
		CVP, SAN LUIS	PLEASANT VALLEY				1								
California	20	UNIT	PUMPING PLANT	Transferred	Provide grounding of the hand rails in the stairwells.	C	\$	1,000						\$ 1,000	\$ 1,000
		CVP, SAN LUIS	WESTLANDS WATER DISTRICT Distribution		Pumping Plant Improvement Projects - MCC Replacements, Structure Rehab, Pipeline Reconnection due to Ground										
California	20	UNIT	System	Transferred	Movement	С	s	11,000,000						\$ 10,000,000	\$ 10,000,000
			WESTLANDS WATER					7,,							
		CVP, SAN LUIS	DISTRICT Distribution			_	_								
California	20	UNIT	System WESTLANDS WATER	Transferred	Lateral 7R Pipeline Replacement (4.5 Miles)	В	\$	8,800,000					-	\$ 4,000,000	\$ 4,000,000
		CVP, SAN LUIS	DISTRICT Distribution		Division Valve Replacement Program - Rehabilitate or Replace										
California	20	UNIT	System	Transferred	Large Distribution System Valves (Slide Gate and Butterfly)	C	S	7,350,000						\$ 2,450,000	\$ 2,450,000
			WESTLANDS WATER												
California	20	CVP, SAN LUIS UNIT	DISTRICT Distribution System	Transferred	2 Regulating Tanks Annually - Paint Interior and Exterior of Tank	F	\$	2,766,500						\$ 2,180,070	\$ 2,180,070
Camorina	20	01411	WESTLANDS WATER	riansicired	Tank	L	3	2,700,300						\$ 2,100,070	5 2,100,070
		CVP, SAN LUIS	DISTRICT Distribution												
California	20	UNIT	System WESTLANDS WATER	Transferred	Lateral 32L Pipeline Replacement (1.75 Miles)	В	\$	1,700,000						\$ 1,700,000	\$ 1,700,000
		CVP. SAN LUIS	DISTRICT Distribution												
California	20	UNIT	System	Transferred	Replace Trash Rack and Motorized Trash Rake System	С	s	1,700,000						\$ 1,650,000	\$ 1,650,000
			WESTLANDS WATER												
o re ·	20	CVP, SAN LUIS UNIT	DISTRICT Distribution	T. C. I	7 Pumping Plants Annually - Paint all structures, pumps, and	E		1 170 000						6 700.000	e 700.000
California	20	CVP,	System	Transferred	cabinets	Е	3	1,170,000		l				\$ 780,000	\$ 780,000
		MISCELLANEOU		1	Repair Canal in Subsidence Area From Deer Creek to White							CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	River MP 88.97 - MP 109.80	A	\$	350,000,000							\$ 250,000,000
		CVP, MISCELLANEOU		1								CIII			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	Capacity Correction Belmont Reach and Below to Orange Cove	А	s	100,000,000				CUI			\$ 100,000,000
		CVP,	C. 0.747.77400		, , and an analysis of the	· · ·	Ť	,							
0.116		MISCELLANEOU		I		_						CUI			
California	21	S PROJECTS CVP	FRIANT KERN CANAL	Transferred	Check Structure Radial Gate Replacement	С	S	3,000,000							\$ 3,000,000
		CVP, MISCELLANEOU		1			1					CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	Repair Bridges in Area that have Fallen in Disrepair	A	s	3,000,000							\$ 3,000,000
		CVP,										OT II			
California	21	MISCELLANEOU S PROJECTS	FRIANT KERN CANAL	Transferred	Repair seepage areas noted at 1.70, 6.61, 7.80. 7.92. 4.80, and along the Friant Kern Canal.	C	9	300.000				CUI			\$ 300,000
Camornia	- 21	CVP,	I KIAITI KEKII CANAL	ransierred	arong the I trant Retit Callat.	·	3	300,000							\$ 500,000
		MISCELLANEOU		1			1					CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	Repair or replace the bridge at MP 30.25.	С	\$	100,000							\$ 100,000
		CVP, MISCELLANEOU		1			1					CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	Replace the damaged concrete lining panels	D	s	60,000				COI			\$ 60,000
		CVP,	C. 0.747.77400		Repair the deteriorated asphalt surfaces that are located within	<u> </u>	Ė	,,0							,
0.116		MISCELLANEOU		I	approximately 5-10 feet of each end of the E. Clinton bridge	_						CUI			
California	21	S PROJECTS CVP.	FRIANT KERN CANAL	Transferred	deck at MP 24.80 on the Friant-Kern Canal.  Repair the deteriorated asphalt surfaces that are located within	E	S	50,000							\$ 50,000
		MISCELLANEOU		1	approximately 5-10 feet of each end of the N. Riverbend bridge	l						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	deck at MP 21.60 on the Friant-Kern Canal.	E	\$	50,000							\$ 50,000

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Appendix

										Fundi	ng Categories*			1
									Appropriated	1		Non-Federal Financi	ng	
				Transferred /		MR&R	E 1 E . 1	Reclamation	D 1 ( D	Other		D 139/ 1		F 4 120 V
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	Troject	Asset Hame	Works	Bite Bescription of Work Needed	Rating	Costs	Salety	Saicty	rederai	rmancing	water esers	T at thers	WIKKER Total
		CVP,			Operations Bridge - Repair road surface deterioration/erosion at						CUI			
		MISCELLANEOU	J	1	the Operations Bridge right approach and provide an even	_	\$ 40,000				COI			
California	21	S PROJECTS CVP.	FRIANT KERN CANAL	Transferred	surface transition to the bridge deck over the Friant-Kern Canal. Repair the alligator cracking and rutting on the west (left,	Е	\$ 40,000							\$ 40,000
		MISCELLANEOU	J		looking upstream) approach for the N. Zediker bridge at MP						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	21.05 on the Friant-Kern Canal.	E	\$ 40,000							\$ 40,000
					Repair the deteriorated asphalt approach surfaces that are									
		CVP, MISCELLANEOU			located within approximately 5-10 feet of each end of the County Road 136 bridge deck at MP 47.02 on the Friant-Kern						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	County Road 136 bridge deck at MP 47.02 on the Friant-Kem	E	s 40,000							s 40,000
		CVP,					,							,,,,,,,
		MISCELLANEOU	J		Clean and recoat the check and wasteway gates at MPs 79.25						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	and 130.03 respectively on the Friant-Kern Canal.	E	\$ 30,000							\$ 30,000
		CVP,			Repair settlement/erosion and replace the sacked concrete along the channel slope under the East (right, looking upstream)									
		MISCELLANEOU	J		abutment of the farm bridge at MP 50.38 on the Friant-Kern						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	Canal.	C	\$ 30,000							\$ 30,000
		CVP,												
C-1:6	21	MISCELLANEOU		T	Repair soil erosion around and near the wingwalls at the farm		e 20.000				CUI			20,000
California	21	S PROJECTS CVP.	FRIANT KERN CANAL	Transferred	bridge at MP 50.38 on the Friant-Kern Canal.  Repair the traffic damage to the guardrail and end treatment at	D	\$ 20,000							\$ 20,000
		MISCELLANEOU	J	1	the upstream end of the East abutment on the Country Road 136						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	at MP 47.02 on the Friant-Kern Canal.	D	\$ 20,000							\$ 20,000
		CVP,		1	Repair, to original specifications/design elevations, erosion									
0.110		MISCELLANEOU			adjacent to and near the abutment wingwalls at the farm bridge						CUI			
California	21	S PROJECTS CVP,	FRIANT KERN CANAL	Transferred	at MP 66.60 on the Friant-Kern Canal.  Wakefield Avenue Bridge - Repair drainage and erosion issues	D	\$ 20,000							\$ 20,000
		MISCELLANEOU	T		at the upstream left road approach of the Wakefield Avenue						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	Bridge over the Friant-Kern Canal	E	\$ 20,000							\$ 20,000
					Clean deck panel joints and expansion joints to remove dirt and									
		CVP,			debris, and reapply mastic and elastomeric joint compounds, at						CUI			
California	21	MISCELLANEOU S PROJECTS	FRIANT KERN CANAL	Transferred	the E. Clinton bridge located at MP 24.80 on the Friant-Kern	Б	S 15,000							\$ 15,000
California	21	CVP,	FRIANT KERN CANAL	Transferred	Operations Bridge - Remove dirt from the Operations Bridge	E	3 13,000							3 13,000
		MISCELLANEOU	J		deck joints and replace the deck joint filler material on the Frian	t					CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	Kern Canal.	E	\$ 15,000							\$ 15,000
		CVP,			Replace the decayed timber members #27, 29, & 42, as counted									
0.116	21	MISCELLANEOU S PROJECTS	FRIANT KERN CANAL	Tr. C 1	from the right, looking upstream, on the Merced Avenue Bridge		S 15,000				CUI			\$ 15,000
California	21	CVP.	FRIANT KERN CANAL	Transferred	at MP 136.67 on the Friant-Kern Canal.	E	\$ 15,000							\$ 15,000
		MISCELLANEOU	J		Seal or regrout the cracks along the canal walls between						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	approximately MP 52.9 and MP 57.12 on the Friant-Kern Canal.	E	\$ 15,000							\$ 15,000
		CVP,			L									
California	21	MISCELLANEOU S PROJECTS	FRIANT KERN CANAL	Transferred	Tulare Avenue Bridge - Repair drainage and erosion noted at the upstream and downstream left road approach.	E	\$ 15,000				CUI			\$ 15,000
Camornia	21	S PROJECTS	FRIANT KERN CANAL	Transferred	At the Wakefield Avenue bridge at MP 38.40, repair the	E	\$ 15,000							3 13,000
		CVP,			damaged and eroded wingwall at the East abutment, on the									
		MISCELLANEOU	J		upstream side, that has concrete damage and exposed rebar on						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	the Friant-Kern Canal.	E	\$ 10,000							\$ 10,000
		CVP, MISCELLANEOU			Expansion joints material and longitudinal joint sealant are in need for replacement with severe deterioration and section loss						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	on the Friant-Kern Canal.	E	\$ 10,000				CUI			\$ 10,000
-umomia		CVP,	I I I I I I I I I I I I I I I I I I I	ramoreired		1	2 10,000							10,000
		MISCELLANEOU			Install a crack meter and seal each vertical crack on the piers at						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	FRES-061 bridge on the Friant-Kern Canal.	D	\$ 10,000							\$ 10,000
		CVP, MISCELLANEOU			Details deals surface accounts smalled a set of an about 7 addition						CITI			
California	2.1	S PROJECTS	FRIANT KERN CANAL	Transferred	Patch deck surface concrete spalls located on the N. Zediker bridge at MP 21.05 on the Friant-Kern Canal.	E	s 10.000				CUI			\$ 10,000
Camorina	21	CVP,	I MANT KERN CANAL	Hansieneu	orage at wir 21.05 on the Friant-Kern Canar.	Б	3 10,000							3 10,000
		MISCELLANEOU		1	Reinstall the disconnected grease line to the right trunnion of the						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	center gate at the Rocky Hill Check (MP 79.25).	D	\$ 10,000							\$ 10,000
		I		1	Andrew V. View Assessed heider of MD 24 02 at 17 in 19									
		CVP,		1	At the N. Viau Avenue bridge at MP 26.83 on the Friant-Kern Canal, remove the 2" diameter galvanized pipe/post, and replace	.]					CUI			
		MISCELLANEOU	I		missing guardrail bolts and nuts at the downstream post fourth						COI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	in from West abutment, and Southwest end treatment.	D	\$ 5,000							\$ 5,000
		CVP,			Remove existing joint sealant compound and replace with new									
C-life :	21	MISCELLANEOU		T C .	mastic at the farm bridge at Road 192, MP 66.24 on the Friant-						CUI			
California	21	S PROJECTS CVP,	FRIANT KERN CANAL	Transferred	Kern Canal.  Repair the erosion behind the upstream end of the East (right,	E	\$ 5,000							\$ 5,000
		CVP, MISCELLANEOU	J	1	looking upstream) wingwall at the Merced Avenue Bridge at MI	>					CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	136.67 on the Friant-Kern Canal.	Е	\$ 5,000							\$ 5,000
					At the Wakefield Avenue bridge at MP 38.40, replace missing		.,							
	I	I		1	guardrail bolts at the downstream guardrail posts numbers 6, 11,									
		CVP, MISCELLANEOU		1	12, & 13 in from the West abutment, and missing guardrail bolts	1					CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	at the upstream guardrail posts members 8, 9, 10, 13 in from the West abutment on the Friant-Kern Canal.	D	\$ 4,000							\$ 4,000
Camornia	2.1	O LACOLLO ID	PARTON CHIME	riansicired	or est accument on the Franti-Kern Canal.	D	4,000							4,000

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										Fundi	ng Categories*			1
		1	1	I	T		ı	B 1 (	Appropriated			Non-Federal Financi	ing	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		CVP,			Patch the bridge deck surface concrete spall at panel lifting eye				, ,,,,,,					
		MISCELLANEOU			near the upstream end of the deck expansion joint, located on						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	the farm bridge at MP 27.71 on the Friant-Kern Canal.  MP 27.71 - Replace missing guardrail bolts and nuts, ensure all	E	\$ 3,000							\$ 3,000
					guardrail connections are properly installed and tightened, and									
		CVP,			remove the two 2-inch diameter pipe columns embedded inside						CUI			
		MISCELLANEOU			of the approach guardrails, at the farm	_								
California	21	S PROJECTS CVP,	FRIANT KERN CANAL	Transferred	bridge at MP 27.71 on the Friant-Kern Canal.	D	\$ 2,000							\$ 2,000
		MISCELLANEOU			Replace missing guardrail bolts and nuts and ensure all guardrail fasteners are tightened, at the E. Clinton bridge at MP 24.80 on						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	the Friant-Kern Canal.	D	\$ 2,000							\$ 2,000
					At the Wakefield Avenue bridge at MP 38.40, install the									
		CVP, MISCELLANEOU			missing nut and washer at the curbs along both the upstream and						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	downstream sides (3rd curb bolt in from the east/right abutment, looking downstream) on the Friant-Kern Canal.	F	s 1.000							\$ 1,000
Camorna	21	CVP,	THE EVE TELECT COLUMN	Transicired	looking downsdeam) on the Frank Rein Cultur.	L	3 1,000							3 1,000
		MISCELLANEOU			Clean off all soil/debris from the deck of the farm bridge at MP						CUI			
California	21	S PROJECTS	FRIANT KERN CANAL	Transferred	31.91 on the Friant-Kern Canal	E	\$ 1,000		1	1	1	1	1	\$ 1,000
		CVP, MISCELLANEOU	STONE CORRAL IRRIG		Repair the loud bearing noise on the motor at SC4A on the									
California	21	S PROJECTS	DIST	Transferred	Stone Corral Irrigation District System.	D	\$ 15,000						\$ 15,000	\$ 15,000
		CVP,												
			STONE CORRAL IRRIG		Repair the loud bearing noise on the motor at SC6 on the Stone									
California	21	S PROJECTS CVP.	DIST	Transferred	Corral Irrigation District System.  Repair the sump pump pipe leak and backfill the erosion next to	D	\$ 15,000	+	<del> </del>		1	1	\$ 15,000	\$ 15,000
			STONE CORRAL IRRIG		the slab at turnout of a facility on the Stone Corral Irrigation									
California	21	S PROJECTS	DIST	Transferred	District System.	D	\$ 10,000						\$ 10,000	\$ 10,000
		CVP,			·									
0.110			STONE CORRAL IRRIG		Exercise the deactivated plant and repair the broken fence rail at									
California	21	S PROJECTS CVP.	DIST	Transferred	SC5 on the Stone Corral Irrigation District System.	E	\$ 5,000	<u> </u>					\$ 5,000	\$ 5,000
			STONE CORRAL IRRIG		Prepare and repaint the flip valve and associated piping in the									
California	21	S PROJECTS	DIST	Transferred	vault of SC6 on the Stone Corral Irrigation District System.	E	\$ 5,000						\$ 5,000	\$ 5,000
		CVP,			Repaint the valves and divert water drippers away from the									
California	21	MISCELLANEOU S PROJECTS	STONE CORRAL IRRIG DIST	Transferred	concrete slab at SC2 on the Stone Corral Irrigation District System.	E	\$ 5,000						\$ 5,000	\$ 5,000
Camornia	21	CVP.	DIST	Transferred	Replace broken gauge, and repaint the pumping plant numbers	E	3 3,000	'					\$ 3,000	3 3,000
			STONE CORRAL IRRIG		at all pumping plant SC2A for the Stone Corral Irrigation									
California	21	S PROJECTS	DIST	Transferred	District System	E	\$ 5,000						\$ 5,000	\$ 5,000
		CVP,			L									
California	22	MISCELLANEOU S PROJECTS	FRIANT DAM	Reserved	Rehab 5 gantry cranes. Complete coating removal and replace with new coating system. R/R electrical components as needed	С	\$ 5,000,000	\$ 5,000,000						\$ 5,000,000
Camoina	22	CVP.	TRIAINT DAW	Reserved	with new coating system. R/R electrical components as needed		3 3,000,000	3 3,000,000					1	\$ 5,000,000
		MISCELLANEOU			Rehab coating/rust abatement on interior and exterior of drum									
California	22	S PROJECTS	FRIANT DAM	Reserved	gate and drum gate chamber. RAX 645	В	\$ 3,521,000	\$ 3,270,000						\$ 3,270,000
		CVP, MISCELLANEOU			Complete AC pavement+K1082 replacement for the entire									
California	22	S PROJECTS	FRIANT DAM	Reserved	campus, making drainage improvements where needed	D	\$ 2,500,000	\$ 2,500,000						\$ 2,500,000
		CVP,					_,,,,,,,,	_,,,,,,,,						_,,,,,,,,
		MISCELLANEOU												
California	22		FRIANT DAM	Reserved	Replace two 18-inch needle valves	A	\$ 1,600,000	\$ 1,400,000						\$ 1,400,000
		CVP, MISCELLANEOU												
California	22	S PROJECTS	FRIANT DAM	Reserved	Replacement of non-operational Dam Backup Generator 150Kw	A	\$ 500,000	\$ 500,000						\$ 500,000
		CVP,			Replace coating on fixed-wheel gates (3) and trash rack									
0.1.0	22	MISCELLANEOU	EDIANE DAM	l .	covers (10). Sandblast down to bare metal and apply new	E		200.000					1	. 200 000
California	22	S PROJECTS CVP,	FRIANT DAM	Reserved	coating system. Replace hardware as needed	E	\$ 500,000	\$ 300,000	1		1	1	+	\$ 300,000
		MISCELLANEOU												
California	22	S PROJECTS	FRIANT DAM	Reserved	Rehab steel gate guides on face of dam	E	\$ 375,000	\$ 175,000	<u> </u>				<u> </u>	\$ 175,000
		CVP,			Clean and recoat the piping that comes off the Friant-Kern Cana									
California	22	MISCELLANEOU S PROJECTS	FRIANT DAM	Reserved	outlet works and feeds the park at the left abutment of Friant Dam and replace the rusted come-along.	E	\$ 10,000	.I				\$ 10,000	J	\$ 10,000
Camomia	- 44	CVP,	I MAINT DAW	reserveu	Dani and replace the fusion confe-along.	Е	9 10,000	+	<del> </del>		<del>                                     </del>	9 10,000	+	φ 10,000
		MISCELLANEOU			Repair the coating on the Obermeyer Gates air receiver tanks at									
California	22	S PROJECTS	FRIANT DAM	Reserved	Friant Dam.	C	\$ 10,000	4	ļ			\$ 10,000	1	\$ 10,000
		CVP,			Connect grounding wire to hand-11+ sk - E-i+ D									
California	22	MISCELLANEOU S PROJECTS	FRIANT DAM	Reserved	Connect grounding wire to handrails at the Friant Dam crane deck at multiple locations.	D	\$ 5,000	d.				\$ 5,000	1	\$ 5,000
Cumonna				ACCOUNTED	Ensure that there are grounding connections for the fence and	-	5,000	1				5,000	1	5,000
	1	CVP,			flex-link grounding connections from the fence to all the gates								1	
0.110		MISCELLANEOU	EDIANE DAN	l .	surrounding the switchyard that supplies power to the Friant	_		.1					1	
California	22	S PROJECTS CVP.	FRIANT DAM	Reserved	Dam Administration Building and grounds.	D	\$ 5,000	+	<b> </b>		<b> </b>	\$ 5,000	1	\$ 5,000
	1	MISCELLANEOU			Ensure that there is a grounding connection for the hand rails								1	
California	22	S PROJECTS	FRIANT DAM	Reserved	near the new switchyard at Friant Dam.	D	\$ 5,000	<u> </u>	<u> </u>			\$ 5,000	<u> </u>	\$ 5,000
		CVP,												
o re	22		Friant Dam VISITOR	ъ .	D E1 1 1 1 2 6 75								I	
California	22	S PROJECTS	RESTROOM	Reserved	Demolish abandoned restroom facility	E	\$ 500,000	\$ 500,000	l		1	1	1	\$ 500,00

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

	ment Report Rehabilitation a	nd Replacement A	ctivities FY 2021-2050		ı	Public R	eport								
										Fundir	g Categories*			٦	
									Appropriated			Non-Federal Financia	la Ia	-	
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total Costs	Reclamation Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Y MR&R Tota	
		CACHUMA			Construct a permanent reliable water supply to Hilton Creek										
California	24	PROJECT	Bradbury Dam	Reserved	endangered species habitat.	A	\$ 5,020,000	\$ 5,020,000						\$ 5,020	0,0
					Upgrade pump controls to provide automatic restart after loss of										
		CACHUMA			power, install alarm equipment to provide automatic notification										
California	24	PROJECT	Bradbury Dam	Reserved	to operators in the event of a failure	A	\$ 2,600,000	\$ 2,600,000						\$ 2,600	0,0
													1		
		CACHUMA													
California	24	PROJECT	Bradbury Dam	Reserved	Replace the outlet works valves at Bradbury Dam	A	\$ 1,400,000	\$ 550,000						\$ 550	),0
		CACHUMA			Clean, remove corrosion, and spot repair the spillway radial gate										
California	24	PROJECT	Bradbury Dam	Reserved	stoplogs.	D	\$ 250,000	\$ 250,000						\$ 250	),(
					Clean, remove corrosion, and spot repair drums, hoist										
		CACHUMA			equipment, and base plates on spillway radial gate hoist										
California	24	PROJECT	Bradbury Dam	Reserved	equipment.	E	\$ 100,000	\$ 100,000						\$ 100	),(
					Perform localized rust removal and recoating on pipes and										
		CACHUMA			valves in both sectionalizing valve vaults for the Hilton Creek										
California	24	PROJECT	Bradbury Dam	Reserved	water supply line release points.	E	\$ 100,000	\$ 100,000						\$ 100	),(
					Replace the spillway radial gate stoplog wire rope and lifting										Т
		CACHUMA			clevis with the appropriately rated equipment. Repair corrosion										
California	24	PROJECT	Bradbury Dam	Reserved	on stoplog turnbuckles.	D	\$ 100,000	\$ 100,000						\$ 100	0,0
					Create a more secure permanent pipe and valve support for the									1	
					Hilton Creek back-up pipe system on the right bank near the										
					river outlet. Replace the fuel lines for the diesel generators with										
					something that is more robust and designed for long term use										
					and exposure to the elements. Finally, clean and recoat the steel										
		CACHUMA			pipe that has excessive corrosion that connects to the 10-inch										
California	24	PROJECT	Bradbury Dam	Reserved	outlet works pipe.	E	S 75,000	\$ 75,000						s 7	5.0
		CACHUMA			In the penstock guard gate gallery repair the corroded guard			,	į į					1	_
California	24	PROJECT	Bradbury Dam		gate, bolts, gate hanger, piping, and flow meter.	E	\$ 75,000	\$ 75,000					1	\$ 7	5,0
		CACHUMA			Replace the existing 250 A main fused disconnect fuses at the		.,,							1	_
California	24	PROJECT	Bradbury Dam		Outlet Works Building with 150 A fuses.	E	\$ 75,000	\$ 75,000					1	\$ 7	5,0
	i				Clean and lubricate the split pillow block bearings and gate		,,,,,,,,	,,	i – – – – –					† ·	
	l				operators for the spillway gates; check the gearbox oil level and								1	1	
	l				send it out to a lab for testing to determine if it needs to be								1	1	
		CACHUMA			processed or replaced; and create a PM to annually maintain the								1		
California	24	PROJECT	Bradbury Dam	Reserved	spillway gate hoists in accordance with FIST 4-1A.	E	\$ 50,000	\$ 50,000					1	S 5	0.0
	l	CACHUMA	,		Clean and recoat all three pitted outlet works discharge pipes			. 23,000	1 1			1	<del></del>	†	
	ı		1	1			1	1	1		1	1	1	1	

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from the concrete wall to the outlet works valves. Clean and recoat the piping and valves in all the vaults for the Hilton Creek system on the left bank. Also, create a PM to

cordance with FIST 4-1A.

n the outlet works.

nnually inspect and maintain the piping and valves in

letailed in appendix A.1.1 and A.1.2 of the April 2016

erform localized rust removal and recoating on the exterior

roperly protect and mark the electrical conduit in the grass djacent to the Hilton Creek Bypass on the left bank. Also,

orrect the exposed electrical cable and fixtures that are in the

ater spray of the leaking valve along the spillway chute wall. Raise the instantaneous pickup of the HC MCC breaker in the

Spillway Control House from 2 to 8 to improve coordination

emove all large vegetation growing on the embankment and

lean and recoat all three pitted outlet works discharge pipes

pillway chute gate as required by FIST 5-1 and RSHS CH. 12

nstall the provided arc flash and shock hazard warning labels on applicable electrical equipment using the Labeling Guide in Appendix E of the April 2016 Bradbury Dam Arc Flash Hazard Analysis report. Verify that all arc flash warning labels have

een placed on equipment covered in the 2016 Arc Flash Hazar

lectrical panels at the Chute Release Point as well as the

radbury Dam Arc Flash Hazard Analysis report:

ating of the outlet works steel pipe as necessary

with the downstream MCC breakers.

utlet works conduit.

djacent to the spillway discharge chute walls. chedule a ROV (remote operation vehicle) inspection of the

om the concrete wall to the outlet works valves. nstall a grounding connections to fence and gate and the

Lubricate the wire ropes for the spillway hoists.

Clean, remove corrosion, and spot repair fixed cone valve pipi

ower the instantaneous pickup of the main service breaker to one setting above LO) to reduce the arc flash hazard at the ollowing locations at a working distance of 18 inches, as

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<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	g Categories*			
									Appropriated			Non-Federal Financi	ıg	1
				Transferred /		MR&R		Reclamation						T
64-4-	Congressional	Authorized	A 4 N	Reserved Works	Brief Description of Work Needed	Categorization	Estimated Total Costs	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year MR&R Total
State	District	Project	Asset Name	WOFKS	Modify the Standing Operating Procedures (SOP) to include the	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R 10tal
					updated Modified Storm Operations (MSO) flow chart and									
					stepped procedure paragraphs. Also, modify the SOP to provide									
					procedures for allowing additional storage in the reservoir to									
		CACHUMA			elevation 753 outside of the flood season months, which was									
California	24	PROJECT	Bradbury Dam	Reserved	formalized in the 2011 Decision Document.	E	\$ 25,000	\$ 25,000						\$ 25,000 *
California	24	CACHUMA PROJECT	Bradbury Dam	Reserved	Repair or replace the leaking 8-inch V-port knife gate at the chute release point of the Hilton Creek water supply line.	F	\$ 25,000	\$ 25,000						\$ 25,000 *
Camornia	24	PROJECT	Bradbury Dam	Reserved	Clean and seal the two exposed reinforcing bars at panel 15a on	E	\$ 25,000	\$ 25,000						3 23,000
		CACHUMA			the spillway chute floor to prevent further corrosion and									
California	24	PROJECT	Bradbury Dam	Reserved	exposure.	A	\$ 10,000	\$ 10,000						\$ 10,000 *
					Determine if the conductors in the upper and lower bifurcation									
		CACHUMA			vaults are well protected against electrical faults by the breaker									
California	24	PROJECT	Bradbury Dam	Reserved	in the spillway control house.	E	\$ 10,000	\$ 10,000						\$ 10,000 *
C I'C .	24	CACHUMA PROJECT	Bradbury Dam	ъ .	Install a dead front cover on the electrical panel of the Dam Tender's Office building.		S 10,000	s 10,000						s 10,000 *
California	24	PROJECT	Bradbury Dam	Reserved	Install overhead power line warning signs at the power line	E	\$ 10,000	\$ 10,000						5 10,000
					crossings along the dam access road in accordance with Chapter									
		CACHUMA			12 in the Reclamation Safety and Health Standards. The signs									
California	24	PROJECT	Bradbury Dam	Reserved	shall be visible from both directions.	E	\$ 10,000	\$ 10,000						\$ 10,000 *
		CACHUMA	L	_	Load test the 40-kW and 100-kW emergency generators as	_		l			1	1		1
California	24	PROJECT	Bradbury Dam	Reserved	required by Reclamation FIST to ensure reliable back-up power.	E	\$ 10,000	\$ 10,000	1		ļ			\$ 10,000 *
California	24	CACHUMA PROJECT	Bradbury Dam	Pacamia J	Place are flash warning labels on panel boards, motor control centers, and disconnects per NEC.	F	\$ 10,000	\$ 10,000	1		1	1		\$ 10,000 *
Camornia	24	I ROJEC I	Diadouty Dain	Reserved	Properly terminate or remove the abandoned conductors inside	E	o 10,000	o 10,000			l .	<del> </del>	1	s 10,000 °
		CACHUMA		1	and outside the Hilton Creek MCC cabinet as required by the			İ			İ	I		
California	24	PROJECT	Bradbury Dam	Reserved	NEC.	E	\$ 10,000	\$ 10,000			İ	I		\$ 10,000 *
		CACHUMA			Provide locks at all vaults along the Hilton Creek Pipeline, and									
California	24	PROJECT	Bradbury Dam	Reserved	lock the hand wheel on the operator of the knife valve.	E	\$ 10,000	\$ 10,000						\$ 10,000 *
					Revise the graph on Drawing Number 369-D-1016 to show the									
c r.c ·	24	CACHUMA	D II D	ъ .	water elevation at 753.3 feet when the spillway gates are not	E	6 10.000	6 10.000						10,000
California	24	PROJECT	Bradbury Dam	Reserved	opened and change it to Drawing Number 368-D-1016.  Revise the SOP to refer to the 4-foot-high radial gate extension	E	\$ 10,000	\$ 10,000	-			-		\$ 10,000 *
					as a gate "extension" and not as a "splash plate", and to clarify									
					that the radial gate size has changed from 50- x 30- foot to 50- x									
		CACHUMA			33-foot and provides an additional 3 feet of reservoir head and 1									
California	24	PROJECT	Bradbury Dam	Reserved	foot of freeboard.	E	\$ 10,000	\$ 10,000						\$ 10,000 *
		CACHUMA			Tighten the nuts and bolts securing the ladder safety cages for									
California	24	PROJECT	Bradbury Dam	Reserved	the spillway radial gate trunnions.	E	\$ 10,000	\$ 10,000						\$ 10,000 *
					Monitor and measure the seepage rate inside of the outlet works									
		CACHUMA			tunnel wall on a monthly basis in the logbook. Monitoring data will consist of date, time, reservoir elevation, seepage rate,									
California	24	PROJECT	Bradbury Dam	Reserved	location, and staff name.	E	\$ 5,000	\$ 5,000						\$ 5,000 *
Cumonna		CACHUMA	Diddoddy Dun	reserved	roomon, and star name.		3,000	5,000						5,000
California	24	PROJECT	Bradbury Dam MAIN OFFICE	Reserved	Rehabilitate the building HVAC system	A	\$ 250,000	\$ 250,000						\$ 250,000 *
		CACHUMA			Install ceiling insulation and energy efficiency improvements to									
California	24	PROJECT	Bradbury Dam MAIN OFFICE	Reserved	building envelope	В	\$ 200,000	\$ 200,000						\$ 200,000 *
		CACHUMA			Rehabilitate existing potable water distribution to the Operators									
California	24	PROJECT CACHUMA	Bradbury Dam MAIN OFFICE	Reserved	office	A	\$ 200,000	\$ 200,000						\$ 200,000 *
California	24	PROJECT	Bradbury Dam TOOL SHED	Reserved	Replace tool shed roofing, siding, doors, and ventilation.	D	\$ 200,000	\$ 200,000						\$ 200,000 *
Camorina	24	I KOJEC I	Bradbury Dain 100E SHED	Reserved	Video inspect the interior of the outlet and overflow pipes with a	, D	3 200,000	3 200,000	1			-		3 200,000
		CACHUMA	CARPINTERIA DAM and		remote operated vehicle. and generate a report, and provide									
California	24	PROJECT	RESERVOIR	Transferred	copies to Reclamation.	E	\$ 25,000						\$ 25,000	\$ 25,000 *
					Change the method of chlorination from chlorine gas to sodium									
		CACHUMA	CARPINTERIA DAM and		hypochlorite on page II-62 of the Standing Operating Procedures									
California	24	PROJECT	RESERVOIR	Transferred	(SOP).	E	\$ 10,000						\$ 10,000	\$ 10,000 *
					Correct the drawing titled "Carpinteria Reservoir Retrofit									
					Project, Overflow Pipe Plan and Profile," to show correct invert elevations for the modified reservoir overflow pipe at station									
					0+67.65. The profile indicates invert elevation 373.76 at									
					stations 0+36.99 and 0+67.65. The plan view indicates invert									
		İ		1	elevation 373.76 at station 0+36.99 and invert elevation 373.74			İ			İ	I		
		CACHUMA	CARPINTERIA DAM and	1	at station 0+67.65. Insert the corrected drawing in the Standing			İ			İ	I		
California	24	PROJECT	RESERVOIR	Transferred	Operating Procedures (SOP).	E	\$ 10,000						\$ 10,000	\$ 10,000 *
C I'C .	24	CACHUMA	CARPINTERIA DAM and RESERVOIR	T. C.	Repair or replace the rusted floor drain valve stem in spillway	E					1	1		10.000
California	24	PROJECT	KESEKVOIK	Transferred		E	\$ 10,000	<b>-</b>	1		<b> </b>	<del>                                     </del>	\$ 10,000	\$ 10,000 *
		1		l	Provide for the complete structural and/or mechanical evaluation of the concrete pipe supports and thrust blocks inside the Lauro			1			1	İ	]	
		CACHUMA	LAURO DAM and	l	Tunnel by a licensed structural engineer, registered in the State			1			1	İ	]	
California	24	PROJECT	REGULATING RESERVOIR	Transferred		D	\$ 100,000	İ			İ	I	\$ 100,000	\$ 100,000 *
					Develop and implement an engineered solution to stabilize the							1		
				l	modified intake structure against lateral loads and moment				1		1	1		
	1	CACHUMA	LAURO DAM and	l	forces resulting from the deterioration of the bearing plate at the	Ì	l		1	1	1		l	
California	24	PROJECT	REGULATING RESERVOIR		base of the modified intake structure.	E	\$ 50,000						\$ 50,000	\$ 50,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

## Asset Management Report List of Major Rehabilitation and Replacement Activities FY 2021-2050

										Fundin	g Categories*			
			1	I	T	Lanan	1	Reclamation	Appropriated			Non-Federal Financia	ng	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
					Investigate the structural requirements of the steel collar									
		CACHUMA	LAURO DAM and		between the outlet works intake structure and the 48-inch diameter steel intake pipe, and repair or replace the collar as									
California	24	PROJECT	REGULATING RESERVOIR	Transferred	needed. Provide protection of the collar from future corrosion.	E	\$ 50,000						\$ 50,000	\$ 50,000
					Clean and apply grout into leaking cracks inside of the outlet									
		CACHUMA	LAURO DAM and		works walls to stop leaking water from entering onto the outlet	_								
California	24	PROJECT	REGULATING RESERVOIR	Transferred	works conduit.  Inspect the interior of the 54-inch diameter steel pipe with a	E	\$ 25,000		-				\$ 25,000	\$ 25,000
		CACHUMA	LAURO DAM and		video camera, and generate a report, and forward a copy of the									
California	24	PROJECT	REGULATING RESERVOIR	Transferred	report to Reclamation.	E	\$ 25,000						\$ 25,000	\$ 25,000
					Develop a procedure to annually test the reliability of the 36-									
		CACHUMA	LAURO DAM and		inch diameter butterfly valve emergency closure function of the hydraulic operating system, and include the procedure in the									
California	24	PROJECT	REGULATING RESERVOIR	Transferred	SOP.	F	\$ 10,000						s 10.000	\$ 10,000
Cumomia		CACHUMA	LAURO DAM and		Update the SOP to include instructions for the hydraulic valve									
California	24	PROJECT	REGULATING RESERVOIR	Transferred	operating system.	E	\$ 10,000						\$ 10,000	\$ 10,000
0.116	24	CACHUMA	ORTEGA DAM and	T. C. 1	Inspect the interior of the outlet piping from the reservoir to the	E	6 25,000						6 25,000	\$ 25,000
California	24	PROJECT	RESERVOIR	Transferred	control building.  Replace the air valve two-inch couplings between the inlet pipe	Е	\$ 25,000						\$ 25,000	\$ 25,000
		CACHUMA	ORTEGA DAM and		and the brass ball valves in the inlet vault with dielectric									
California	24	PROJECT	RESERVOIR	Transferred	couplings.	E	\$ 10,000						\$ 10,000	\$ 10,000
0.110		CACHUMA	SOUTH COAST CONDUIT		Replace/refurbish all blowoff valves, blowoff nozzles, and air	-								
California	24	PROJECT CACHUMA	CARPINTERIA SOUTH COAST CONDUIT	Transferred	valves located on the Carpinteria section of the SCC.	E	\$ 350,000						\$ 350,000	\$ 350,000
California	24	PROJECT	CARPINTERIA	Transferred	Blow-off Structure Rehabilitation	A	\$ 875,000						\$ 225,000	\$ 225,000
		CACHUMA	SOUTH COAST CONDUIT		Rehabilitate South Coast Conduit Lower Reach Lateral									
California	24	PROJECT	CARPINTERIA	Transferred	Structures	A	\$ 200,000						\$ 100,000	\$ 100,000
California	24	CACHUMA PROJECT	SOUTH COAST CONDUIT CARPINTERIA	Transferred	Riser Pipe Replacement or Relocation associated with the Air Vacuum Air Release Valve (AVAR) Structures.	Α.	\$ 430,000						\$ 100,000	\$ 100,000
Camomia	24	PROJECT	CARPINIERIA	Transferred	Repair or replace the corroded pipes inside of the blowoff	A	3 430,000		1				\$ 100,000	\$ 100,000
		CACHUMA	SOUTH COAST CONDUIT		structures at stations 225+98, 227+20, 388+10, 504+65,									
California	24	PROJECT	CARPINTERIA	Transferred	552+45, 803+45, 804+24, and along the Carpenteria Reach.	E	\$ 75,000						\$ 75,000	\$ 75,000
		a . am n			Inspect the interior of the steel conduits at the Lauro, Sheffield,									
California	24	CACHUMA PROJECT	SOUTH COAST CONDUIT CARPINTERIA	Transferred	Ortega, and Carpinteria Control Stations and provide a written report to Reclamation.	E	s 50.000						s 50.000	\$ 50,000
Camomia	24	r KOJEC I	CARFINIERIA	Transferred	Locate the discharge pipe outfalls from the blowoff structures at	E	\$ 30,000						\$ 30,000	\$ 30,000
		CACHUMA	SOUTH COAST CONDUIT		stations 227+20, 504+65, and 552+45, and verify that the pipes									
California	24	PROJECT	CARPINTERIA	Transferred	are discharging water without blockage and damage.	E	\$ 50,000						\$ 50,000	\$ 50,000
		CACHUMA	SOUTH COAST CONDUIT		Obtain a conveyance permit to convey potable water from the Cater Water Treatment Plant to Carpinteria Dam in accordance									
California	24	PROJECT	CARPINTERIA	Transferred	with the California Department of Public Health.	E	\$ 50,000						\$ 50,000	\$ 50,000
Cumomia		THOSE CT	CHI INTERIO	Transferred	Repair or replace the damaged and/or deteriorated lid to the		30,000						50,000	30,000
		CACHUMA	SOUTH COAST CONDUIT		blowoff structure at station 74+02 and the air vault structure at									
California	24	PROJECT	CARPINTERIA	Transferred	station 580+89 (adjacent to the Goleta vault).	Е	\$ 50,000						\$ 50,000	\$ 50,000
California	24	CACHUMA PROJECT	SOUTH COAST CONDUIT CARPINTERIA	Transferred	Repair the damaged mortar joints along the conduit within the Sheffield Tunnel.	E	\$ 50,000						\$ 50,000	\$ 50,000
Camonna	24	ROJECT	CARTIVIERIA	Hansierieu	Retrofit all subgrade air valve vaults along the South Coast	ь	3 30,000						3 30,000	3 30,000
					Conduit, from the Cater Water Treatment Plant to the									
		CACHUMA	SOUTH COAST CONDUIT		Carpenteria Dam, to relocate the vent and valve to above ground	_								
California	24	PROJECT	CARPINTERIA	Transferred	locations.	E	\$ 50,000						\$ 50,000	\$ 50,000
		CACHUMA	SOUTH COAST CONDUIT	1	Install a flap valve on the end of the blow-off valves discharge pipe outlets at Upper Reach Sta 477+49 and Lower Reach			]	I				1	
California	24	PROJECT	CARPINTERIA	Transferred	stations 74+02, 223+40, 245+70 and 318+50.	Е	\$ 50,000	<u> </u>	<u> </u>		<u> </u>		\$ 50,000	\$ 50,000
					Deflect the leaking water away from the conduit in order to									
		CACHIBAA	SOUTH COAST CONDUIT		protect the conduit at Station Numbers 94+68, 94+98, 95+24,				1					
California	24	CACHUMA PROJECT	CARPINTERIA	Transferred	100+96, 102+80, 117+38, and 121+8- inside the Sheffield Tunnel.	E	S 25,000		1				\$ 25,000	\$ 25,000
Camornia	27		C. III INTERIA	ransicired	Exercise the discharge valve located in the south pit at the	-	23,000		<u> </u>		1	<b>†</b>	25,000	23,000
			SOUTH COAST CONDUIT	1	Ortega Control Station, and include exercising of this valve in			]	I				1	
California	24	PROJECT	CARPINTERIA	Transferred	the existing valve exercising program.	E	\$ 25,000	ļ	ļ				\$ 25,000	\$ 25,000
		CACHUMA	SOUTH COAST CONDUIT	1	Include the Structural Maintenance program, that ensures every structure on the SCC is visited on an annual basis, in the revised			Ì	I		l		l	
California	24	PROJECT	CARPINTERIA	Transferred	SOP.	E	S 25,000	Ì	I		l		\$ 25,000	\$ 25,000
		CACHUMA	SOUTH COAST CONDUIT		Investigate a means of pumping out the seepage filling the	-		İ	1		İ	1		
California	24	PROJECT	CARPINTERIA	Transferred	blowoff structure located at station 552+45.	E	\$ 25,000		1				\$ 25,000	\$ 25,000
		CACHIBAA	COLUMN COAST COMPLET	1	Update the existing preventative maintenance program to			]	I				1	
California	24	CACHUMA PROJECT	SOUTH COAST CONDUIT CARPINTERIA	Transferred	include inspections and performance of routine maintenance in the Sheffield Tunnel, and provide a copy to Reclamation.	E	S 25,000	]	I		l		\$ 25,000	\$ 25,000
_umorma	27			ransiered	Install a drain in the concrete vault at Lower Reach Sta 16+21 in		25,000	1	t		<del> </del>	İ	25,000	25,000
		CACHUMA	SOUTH COAST CONDUIT	1	order to provide for positive drainage of water out of the vault			]	I		l		l	
California	24	PROJECT	CARPINTERIA	Transferred	and to prevent the accumulation of water inside the vault.	E	\$ 10,000		1				\$ 10,000	\$ 10,000
				1	Repair and recoat all unused lateral takeoff piping from the blind flange to the lateral wall, located in the Goleta section of			]	I		l		l	
		CACHUMA	SOUTH COAST CONDUIT	1	the SCC, and all corroding piping in the laterals located in the			]	I		l		l	
California	24	PROJECT	GOLETA	Transferred	Carpinteria section of the SCC.	Е	\$ 300,000	]	I		l		\$ 300,000	\$ 300,000
					Conduct a video inspection of the interior of the conduit through	1								
0.116	2.		SOUTH COAST CONDUIT	m	the Sheffield Tunnel from the west end to the maximum extent	-		]	I		l			
California	24	PROJECT	GOLETA	Transferred	practical.	E	\$ 75,000		1				\$ 75,000	\$ 75,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			
	1			In e 1/		MR&R	T	Reclamation	Appropriated			Non-Federal Financi	ng	
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
California	24	CACHUMA PROJECT	SOUTH COAST CONDUIT GOLETA	Transferred	Install an easily identifiable and accessible exterior eye wash station at the Glen Anne Turnout.	E	\$ 10,000	Surety	Surecy	reactur	Timmenig	Water Osers	\$ 10,000	\$ 10.000 *
California	24	CACHUMA PROJECT	SOUTH COAST CONDUIT TECOLOTE TUNNEL	Transferred	Clean Clogged Weep Holes	С	\$ 500,000						\$ 500,000	\$ 500,000 *
		CACHUMA	SOUTH COAST CONDUIT		Perform an inspection of the pressure conduit between the intake structure and the Tecolote Tunnel's gate valve and									
California	24	PROJECT CACHUMA	TECOLOTE TUNNEL SOUTH COAST CONDUIT	Transferred	generate a report.	Е	\$ 100,000						\$ 100,000	\$ 100,000 *
California	24	PROJECT	TECOLOTE TUNNEL	Transferred	Plan and implement a program to evaluate the deterioration of the tunnel lining between Stations 160+00 and 280+00.	Е	\$ 40,000						\$ 40,000	\$ 40,000 *
					Add arc flash/electrical signage to applicable electrical boxes that are associated with the Tecolote Tunnel North Portal.									
California	24	CACHUMA PROJECT	SOUTH COAST CONDUIT TECOLOTE TUNNEL	Transferred	Signage shall be in conformance with the 2009 Reclamation Safety and Health Standards, Section 9.	D	\$ 25,000						\$ 25,000	\$ 25,000 *
California	24	CACHUMA PROJECT	SOUTH COAST CONDUIT TECOLOTE TUNNEL	Transferred	Place permanent station markers within the full length of the tunnel at a maximum of 500 feet intervals.	Е	\$ 25,000						\$ 25,000	\$ 25,000 *
					Update the SOP to include procedure for measuring the pH levels and water temperature in the tunnel. Also include									
California	24	CACHUMA PROJECT	SOUTH COAST CONDUIT TECOLOTE TUNNEL	Transferred	procedures for exercising the ventilation system bi-monthly to accommodate full air exchange in the tunnel.	E	\$ 15,000						S 15.000	\$ 15,000 *
		SANTA MARIA PROJECT	TWITCHELL DAM and RESERVOIR	Transferred		В	\$ 246,000,000						,	\$ 246,000,000
California	24	SANTA MARIA	TWITCHELL DAM and		Reservoir Sediment Reduction								\$ 246,000,000	
California	24	PROJECT SANTA MARIA	RESERVOIR TWITCHELL DAM and	Transferred	Install Debris Basin 1-3 on the Cuyama River	Е	\$ 2,500,000						\$ 2,400,000	\$ 2,400,000 *
California	24	PROJECT SANTA MARIA	RESERVOIR TWITCHELL DAM and	Transferred	Reservoir Sediment Reduction	В	\$ 1,450,000				1		\$ 1,400,000	\$ 1,400,000
California	24	PROJECT	RESERVOIR	Transferred	Reservoir Sediment Reduction Clean and provide a new protective coating to corroded areas on	В	\$ 6,450,000						\$ 450,000	\$ 450,000 *
					the steel liner within the outlet works conduit in the vicinity of the outlet works gates. Corroded areas on the liner are located									
		SANTA MARIA	TWITCHELL DAM and		between the guard and regulating gates and downstream of the									
California	24	PROJECT	RESERVOIR	Transferred	regulating gates. Provide verification, by a Professional Engineer, that the	Е	\$ 50,000						\$ 50,000	\$ 50,000 *
		SANTA MARIA	TWITCHELL DAM and		additional load on the right outlet works stilling basin wall, as a result of placing backfill material, will not affect the structural									
California	24	PROJECT	RESERVOIR	Transferred	integrity of the wall.  Replace and upgrade 1. the seals and seats between gates, slides	Е	\$ 50,000						\$ 50,000	\$ 50,000 *
					and bottom seats, 2. piping connections between piping and									
					Hydraulic Lift Rams on the gate control system (earthquake links) 3. design and install manual opening indicators on all four	r								
California	24	SANTA MARIA PROJECT	TWITCHELL DAM and RESERVOIR	Transferred	gates (back-up) during powers failures. Back-up seats, gaskets for Ram packing Glands and Bonnets.	С	\$ 130,000						\$ 50,000	\$ 50,000 *
		SANTA MARIA	TWITCHELL DAM and		Develop a program to periodically monitor and record the estimated volume of sediment that is moving through the weep									
California	24	PROJECT	RESERVOIR	Transferred	holes in the spillway tunnel. Install signage at the spillway inlet and outlet, and other areas as	Е	\$ 10,000						\$ 10,000	\$ 10,000 *
California	24	SANTA MARIA PROJECT	TWITCHELL DAM and RESERVOIR	Transferred	deemed necessary, to warn trespassers of the inherent dangers of the spillway.		\$ 10,000						s 10,000	\$ 10,000 *
		SANTA MARIA	TWITCHELL DAM and		Revise the Standing Operating Procedures (SOP) and establish a	ı								
California	24	PROJECT VENTURA	RESERVOIR CASITAS DAM and	Transferred	procedure to update the SOP annually:	Е	\$ 10,000						\$ 10,000	\$ 10,000 *
California	24	RIVER PROJECT VENTURA	RESERVOIR CASITAS DAM and	Transferred	Refurbish or replace 48-inch outlet works hollow jet valve.	С	\$ 1,000,000						\$ 1,000,000	\$ 1,000,000 *
California	24	RIVER PROJECT	RESERVOIR	Transferred	Pipeline Assessment and Rehabilitation Remove excess soil deposits behind the left spillway chute wall,	С	\$ 310,000						\$ 280,000	\$ 280,000
		VENTURA	CASITAS DAM and		expose and clean the concrete gutter behind the wall, and install a culvert pipe or other means to enhance drainage in the area of									
California	24	RIVER PROJECT		Transferred	sloughing.	С	\$ 100,000						\$ 100,000	\$ 100,000 *
		VENTURA	CASITAS DAM and		Conduct and document a 10 percent unbalanced test of the 4- foot by 4- foot guard gate on the outlet works. Submit copies of									
California	24	RIVER PROJECT VENTURA	RESERVOIR CASITAS DAM and	Transferred	the report to Reclamation.  Remove all sediment in the Spillway Stilling Basin prior to the	Е	\$ 50,000						\$ 50,000	\$ 50,000 *
California	24	RIVER PROJECT	RESERVOIR	Transferred	next scheduled dive examination in 2015.  Install a monitoring system at the right downstream spillway	С	\$ 20,000				1		\$ 20,000	\$ 20,000 *
California	24	VENTURA RIVER PROJECT	CASITAS DAM and RESERVOIR	Transferred	wall joint of the Robles Diversion Dam to record movement/separation.	E	\$ 10,000						s 10.000	\$ 10,000 *
California	24	VENTURA RIVER PROJECT	CASITAS DAM and RESERVOIR	Transferred	Update SOP to include the air compressor at the oulet works hoise house.	F	s 10,000				1		s 10,000	\$ 10,000 *
		VENTURA RIVER PROJECT	CASITAS DISTRIBUTION SYSTEM			-	\$ 1,000,000						\$ 1,000,000	
California	24	VENTURA	CASITAS DISTRIBUTION	Transferred	Protect/replace Casitas Gravity Main at San Antonio Creek	A	,,,,,,,				<u> </u>			,,,,,,,
California	24	RIVER PROJECT VENTURA	SYSTEM CASITAS DISTRIBUTION	Transferred	Pipeline Assessment and Rehabilitation Reservoir Maintenance - Structural repair, seismic retrofit,	С	\$ 1,335,000						\$ 775,000	\$ 775,000
California	24	RIVER PROJECT		Transferred	interior coating and exterior coating of Casitas' 16 reservoirs  Clean and paint the interior of the above-ground steel tanks at	С	\$ 1,120,000				-		\$ 570,000	\$ 570,000
California	24	VENTURA RIVER PROJECT	CASITAS DISTRIBUTION SYSTEM	Transferred	the Oakview West, Villanova, and Upper Ojai Reservoirs to prevent further deterioration.	E	\$ 400,000						\$ 400,000	\$ 400,000 *
California	24	VENTURA RIVER PROJECT	CASITAS DISTRIBUTION		Repair or Replace the chlorination scale station footings.	E	\$ 75,000						\$ 75,000	\$ 75,000 *
Camornia	24	KIVER PROJECT	3131EW	1 ransterred	repair or replace the chlorination scale station footings.	E	o /5,000	l .			<u> </u>		Jo /5,000	* /٥,000 *

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Asset Management Report List of Major Rehabilitation and Replacement Activities FY 2021-2050

										Fundin	g Categories*			
	1	1	1	Tr. 6 1/		MDeD	T	Reclamation	Appropriated			Non-Federal Financia	ng	,
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
State	District	Troject	ressec rume	WOLKS	Clean and repaint all pipe lines and related metalwork at the	Kuting	Costs	Surety	Surety	- ruciui	Timmening	Water Caera	T ut there	MILLER TOLLI
		VENTURA	CASITAS DISTRIBUTION		following reservoir tank locations: Oakview and Ojai East									
California	24	RIVER PROJECT	SYSTEM	Transferred	Reservoirs.	E	\$ 50,000						\$ 50,000	\$ 50,000
					Clean and repaint all pumps and related metalwork at the									
		VENTURA	CASITAS DISTRIBUTION		following reservoir locations: Avenue #1 (Reverse flow pump system), Avenue #2, Ojai Valley and YUpper Ojai Pumping									
California	24	RIVER PROJECT		Transferred	Plants.	E	\$ 50,000						\$ 50,000	\$ 50,000
		VENTURA	CASITAS DISTRIBUTION		Clean and repaint the exterior tank surfaces showing minor-to-								2 2,,,,,	
California	24	RIVER PROJECT	SYSTEM	Transferred	moderate rust at the Rincon Balancing Reservoirs as needed.	E	\$ 50,000						\$ 50,000	\$ 50,000
					Determine and identify the species of the live trees on the outer									
0.116	24	VENTURA	CASITAS DISTRIBUTION	T. C. 1	embankment that are within Reclamation right-of-way and 25	E	6 10.000						e 10.000	£ 10,000
California	24	RIVER PROJECT VENTURA	CASITAS DISTRIBUTION	Transferred	feet from the toe at the following locations:	E	\$ 10,000		-				\$ 10,000	\$ 10,000
California	24	RIVER PROJECT	SYSTEM	Transferred	Install high-voltage electrical power line crossings signs as needed.	E	\$ 10,000						\$ 10,000	\$ 10,000
		VENTURA	CASITAS DISTRIBUTION		Install missing access ladder guard at the Rincon Balancing	_								
California	24	RIVER PROJECT	SYSTEM	Transferred	Reservoir #1 to prevent public access.	E	\$ 10,000						\$ 10,000	\$ 10,000
		VENTURA	CASITAS DISTRIBUTION		Prime and paint all gate controls and other metalwork on the	_								
California	24	RIVER PROJECT VENTURA	SYSTEM CASITAS DISTRIBUTION	Transferred	control decks of the Robles Diversion Dam.	E	\$ 10,000						\$ 10,000	\$ 10,000
California	24	RIVER PROJECT	SYSTEM	Transferred	Remove the vegetation and repair the horizontal cracking within the canal prism between MP 3.88 and 4.00.	E	\$ 10,000						\$ 10,000	\$ 10,000
Junoina	~7	VENTURA	CASITAS DISTRIBUTION	11Sicired	Repair erosion at the right inner embankment of MP 4.38 to	<del></del>	- 10,000	<b>†</b>	<b>†</b>		1	<del> </del>	- 10,000	- 10,000
California	24	RIVER PROJECT	SYSTEM	Transferred	prevent further loss of material behind concrete canal lining.	E	\$ 10,000	<u>                                      </u>	<u> </u>		<u> </u>	<u> </u>	\$ 10,000	\$ 10,000
		VENTURA	Lake Casitas Recreation		Vegetation - Remove vegetation from dry portions of the lake									
California	24	RIVER PROJECT	Facility	Transferred	shoreline	E	\$ 350,000						\$ 200,000	\$ 200,000
0.116	24	VENTURA	Lake Casitas Recreation	T. C. 1		C	6 100.000						e 100.000	£ 100,000
California	∠4	RIVER PROJECT VENTURA	Facility	Transferred	Lake Aeration system replacement		\$ 100,000	<del> </del>	+		<b> </b>	<del>                                     </del>	\$ 100,000	\$ 100,000
California	24		ROBLES DIVERSION DAM	Transferred	Change seals on the control gates at Robles Diversion Dam.	E	\$ 50,000		1			1	\$ 50,000	\$ 50,000
					Repair damaged All-American Canal lining along the transition									
			ALL AMERICAN CANAL		from the unlined to lined section of the canal. Additional									
California	36	CANAL SYSTEM	LINING	Transferred	investigation may increase the scope and cost of the project.	С	\$ 500,000						\$ 500,000	\$ 500,000
		ALL AMEDICAN	COACHELLA CANAL STA.											
California	36		2603 TO 4562plus67	Transferred	Coachella Illegal Dump Sites Cleanup	С	\$ 1,005,800	\$ 836,000						\$ 836,000
Cumomu	50	CHULDOTOTEM	2003 ТО 1302рказот	Transferred	Countries megal Damp Sites Creamap	Ü	3 1,000,000	\$ 050,000						030,000
		ALL-AMERICAN	COACHELLA CANAL STA.											
California	36	CANAL SYSTEM	5150 TO 5725plus00	Transferred	Irrigation Lateral 108.2 replacement - Phase I and II.	D	\$ 2,750,000						\$ 2,750,000	\$ 2,750,000
		ALL AMERICAN	COACHELLA CANAL CTA											
California	36		COACHELLA CANAL STA. 5150 TO 5725plus00	Transferred	Irrigation Lateral 102.3 Replacement.	D	\$ 2,100,000						\$ 2,100,000	\$ 2,100,000
Camorina	30	CANALSISIEM	5150 1O 5725pius00	Halisterred	irrigation Lateral 102.3 Replacement.	Б	3 2,100,000						\$ 2,100,000	\$ 2,100,000
		ALL-AMERICAN	COACHELLA CANAL STA.											
California	36	CANAL SYSTEM	5150 TO 5725plus00	Transferred	Irrigation Lateral 103.0 and Meter Replacement.	D	\$ 375,000						\$ 375,000	\$ 375,000
	2.0		COACHELLA CANAL STA.											
California	36	CANAL SYSTEM	6106plus06 TO 6517 END	Transferred	Irrigation Lateral 119.64-7.5 Replacement.	D	\$ 7,860,000		-				\$ 5,810,000	\$ 5,810,000
		ALL-AMERICAN	COACHELLA CANAL STA.											
California	36	CANAL SYSTEM	6106plus06 TO 6517 END	Transferred	Irrigation Lateral 119.64-4.1 replacement.	D	\$ 5,037,500						\$ 3,500,000	\$ 3,500,000
			COACHELLA CANAL STA.			_								
California	36	CANAL SYSTEM	6106plus06 TO 6517 END	Transferred	L4 Pump Station and Check Structure Replacement.	С	\$ 7,536,000						\$ 3,136,000	\$ 3,136,000
		ALL-AMERICAN	COACHELLA CANAL STA.	1		1		İ	1		1	I	1	
California	36		6106plus06 TO 6517 END	Transferred	Irrigation Lateral 123.45-1.3-3.9LT Replacement.	E	\$ 2,316,598		1			1	\$ 2,316,598	\$ 2,316,598
							-,,,,,,,,						,,,,,,,,,	-,,-70
			COACHELLA CANAL STA.											
California	36	CANAL SYSTEM	6106plus06 TO 6517 END	Transferred	Irrigation Lateral 123.45-1.3-2.8 replacement.	D	\$ 1,856,846	1	-		1	-	\$ 1,856,846	\$ 1,856,846
		ALL-AMEDICAN	COACHELLA CANAL STA.	1				]	1			I	I	
California	36		6106plus06 TO 6517 END	Transferred	Irrigation Lateral 119.64-4.6 replacement.	D	\$ 1,684,172	İ	1		1	I	\$ 1,684,172	\$ 1,684,172
-umorina	50		2.23pias00 10 031/ END	ransiered			- 1,004,172	1	t		1	<b>†</b>	- 1,004,172	- 1,004,172
		ALL-AMERICAN	COACHELLA CANAL STA.		Irrigation Lateral 123.45-1.3-2.8 and Lateral 119.64-3.6									
California	36	CANAL SYSTEM	6106plus06 TO 6517 END	Transferred	Division Box Replacement.	E	\$ 1,400,000		1				\$ 1,275,000	\$ 1,275,000
		ALL AMERICAN	COACHELLA CANAL STA.		Irrigation Lateral 123.45-1.3 and Lateral 123.45-1.3-2.2				1			1		
California	36		6106plus06 TO 6517 END	Transferred	Division Box Replacement.	E	\$ 1,675,000						\$ 1,175,000	\$ 1,175,000
Camornia	50	CAINAL STSTEM	0.00pius00 10 031/ END	ransitited	DIVISION DOX REPRECEMENT.		1,075,000	<b> </b>	t			<b>†</b>	v 1,1/2,000	y 1,1/2,000
		ALL-AMERICAN	COACHELLA CANAL STA.											
California	36		6106plus06 TO 6517 END	Transferred	Irrigation Lateral 119.64-2.6 replacement.	D	\$ 801,347						\$ 721,347	\$ 721,347
0.116	2.5		COACHELLA CANAL STA.		T. C. T. 11102B 1			İ	1		1	I		e
California	36	CANAL SYSTEM	6106plus06 TO 6517 END	Transferred	Irrigation Lateral 119.2 Replacement	Е	\$ 691,721		<b>-</b>		-	<b>_</b>	\$ 691,721	\$ 691,721
		ALL-AMERICAN	COACHELLA DAMS AND						1			1		
California	36	CANAL SYSTEM		Transferred	East Side Dike Phase II - I-10 to Dos Palmas Road	A	\$ 9,916,200	İ	1		1	I	\$ 9,466,200	\$ 9,466,200
	_		COACHELLA DAMS AND	l _	L				1			1		
California	36	CANAL SYSTEM	WATERWAYS	Transferred	East Side Dike Improvement Phase I - Dune Palms to I-10	A	\$ 3,649,000	]	1	\$ 1,849,000	l	1		\$ 1,849,000

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										Fundin	g Categories*			
	1	1	1	Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financir	ig I	
	Congressional	Authorized		Reserved		Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		ALL-AMERICAN	COACHELLA DAMS AND											
California	36	CANAL SYSTEM		Transferred	Lower Canal Lining Replacement Program	E	\$ 900,000						\$ 300,000	\$ 300,000
		ALL AMERICAN	COACHELLA DAMS AND											
California	36	CANAL SYSTEM	WATERWAYS	Transferred	Upper Canal Lining Replacement Program	E	\$ 600,000						\$ 200,000	\$ 200,000
Camorina	50			Hansierred	opper canal Emilig replacement riogram	L	3 000,000						\$ 200,000	\$ 200,000
		ALL-AMERICAN	ALL AMERICAN CANAL		Repair all 14 All American Canal Radial Gates (Bypass and									
California	51	CANAL SYSTEM	STA. 37plus23 TO 775	Transferred	Clarifier).	D	\$ 2,205,000						\$ 1,890,000	\$ 1,890,000 *
		ALL-AMERICAN	ALL AMERICAN CANAL											
California	51		STA. 37plus23 TO 775	Transferred	Refurbish station 48+50 check gates, Section 1.	E	\$ 980,000						\$ 980,000	\$ 980,000
		ALL AMEDICAN	ALL AMERICAN CANAL		Repair or replace trash screen grating, AAC Section 1. Replace 6 vertical guide beams and 3 vertical center beams on the AAC									
California	51		STA. 37plus23 TO 775	Transferred	trashrack.	D	S 1,602,000						\$ 930,000	s 930,000 *
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
C I'C '	61		ALL AMERICAN CANAL	m c 1	D.C.I.I. II. A. A. A. A. A. C. C. A.	ъ	6 440,000						6 440,000	6 440,000
California	51	CANAL SYSIEM	STA. 37plus23 TO 775	Transferred	Refurbish roller gate actuator and gear train, Section 1.	D	\$ 440,000						\$ 440,000	\$ 440,000
			ALL AMERICAN CANAL											
California	51	CANAL SYSTEM	STA. 37plus23 TO 775	Transferred	Repair clarifier bridge and anchor concrete, Section 1.	D	\$ 450,000						\$ 400,000	\$ 400,000
		ALL-AMERICAN	ALL AMERICAN CANAL		Repair/replace caps on wooden clarifier training walls, Section									
California	51		STA. 37plus23 TO 775	Transferred	1.	E	\$ 120,000						\$ 120,000	\$ 120,000
_							.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							.,
0.116	51		ALL AMERICAN CANAL	m c 1	D 1 500 1 5 1 140 C 5 1	E	6 1 527 100						\$ 110,000	£ 110,000
California	51	CANAL SYSIEM	STA. 37plus23 TO 775	Transferred	Replace 588 clarifier valves, AAC Section 1.	E	\$ 1,527,100						\$ 110,000	\$ 110,000
			IMPERIAL DAM CAMP,											
California	51	CANAL SYSTEM	STORAGE/SERVICE	Transferred	Imperial Dam housing sewer main replacement.	C	\$ 250,000						\$ 250,000	\$ 250,000 *
		ALL-AMERICAN	IMPERIAL DAM											
California	51		DESILTING WORKS	Transferred	AAC Desilting Works sludge pipes replacement.	С	\$ 12,164,800						\$ 11,550,000	\$ 11,550,000
					Imperial Dam Dredging Project - dredging of approximately									
		ALL AMEDICAN	IMPERIAL DAM		700,000 CY of sediment that has accumulated immediately above Imperial Dam. Includes stop log dredge work by dive									
California	51		DESILTING WORKS	Transferred	team.	С	\$ 7,796,000	\$ 4,645,000						\$ 4,645,000 *
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						,,,,,,,
0.110			IMPERIAL DAM			E							\$ 2,900,000	\$ 2,900,000
California	51	CANAL SYSTEM	DESILTING WORKS	Transferred	Unused radial gate repair.	E	\$ 3,659,600						\$ 2,900,000	\$ 2,900,000
			IMPERIAL DAM											
California	51	CANAL SYSTEM	DESILTING WORKS	Transferred	Clean foundation drains; California side, then Gila side.	С	\$ 300,000	\$ 1,365					\$ 148,635	\$ 150,000
		ALL-AMERICAN	IMPERIAL DAM		Refurbish or replace Imperial Dam service water tank and piping									
California	51		DESILTING WORKS	Transferred	from tank to California abutment.	E	\$ 150,000	\$ 1,365					\$ 148,635	\$ 150,000
			PILOT KNOB											
California	51	ALL-AMERICAN CANAL SYSTEM	POWERPLANT/STA.775 TO	Transferred	Refurbish Pilot Knob check gates, Section 3.	D	\$ 1,280,000						\$ 1,280,000	\$ 1,280,000
Camornia	31	CANAL STSTEM	PILOT KNOB	Transferred	Returbish Filot Knob check gates, Section 5.	Б	\$ 1,280,000						\$ 1,280,000	\$ 1,280,000
			POWERPLANT/STA.775 TO											
California	51	CANAL SYSTEM	1097 PILOT KNOB	Transferred	Rebuild Pilot Knob wasteway gates, Section 3.	D	\$ 1,945,400						\$ 1,140,500	\$ 1,140,500
		ALL-AMERICAN			Design and construct floating bulkhead set for Pilot Knob,									
California	51	CANAL SYSTEM		Transferred	Section 3.	D	\$ 250,000						\$ 250,000	\$ 250,000
			PILOT KNOB											
California	51	ALL-AMERICAN CANAL SYSTEM	POWERPLANT/STA.775 TO 1097	Transferred	Pilot Knob actuator upgrade.	D	\$ 794,200	]					\$ 248,100	\$ 248,100
Cambinid	J1	COLO RVR		rum/icired	Heavy rehabilitation on a 0.27 mile section of Route 0423-0052:	-	- //1,200	1					240,100	240,100
		FRON WORK &	nn. no. no	_	Blythe - Colorado River Levee - Cibola Farmers Bridge Access									
California	51	LEVEE SYS COLO RVR	PRJ ROADS AND BRIDGES	Reserved	River.  Reconstruction of a 0.73 mile section of Route 0423-2784:	С	\$ 141,200	\$ 141,200						\$ 141,200 *
		FRON WORK &			Blythe - Bankline Road Palo Verde Division - California D from			]						
California	51	LEVEE SYS	PRJ ROADS AND BRIDGES	Reserved	mile post 0.59 to 1.32.	C	\$ 182,500	\$ 182,500						\$ 182,500 *
		COLO RVR FRON WORK &			Reconstruction of a 0.22 mile section of Route 0423-2786: Blythe - Bankline Road Palo Verde Division - California B from									
California	51	LEVEE SYS	PRJ ROADS AND BRIDGES	Reserved	mile post 0.00 to 0.22.	С	\$ 55,000	\$ 55,000						\$ 55,000 *
		COLO RVR		_	-		,	,						,
o ve			SENATOR WASH ACCESS	ъ.	Road Repair and Repaving: Senator Wash Rd - McKinley Rd to			]		e + 000 00°				
California	51	LEVEE SYS COLO RVR	ROAD SENATOR WASH PUMPING-	Reserved	Squaw Lake.	D	\$ 1,800,000	1		\$ 1,800,000			1	\$ 1,800,000 *
		FRON WORK &	GENERATING PLANT (6					]						
California	51	LEVEE SYS	units)	Reserved	Senator Wash SCADA upgrade, relays/automatic transfer switch	С	\$ 3,484,200	\$ 3,263,700						\$ 3,263,700 *
		COLO RVR FRON WORK &	SENATOR WASH PUMPING- GENERATING PLANT (6		Repair 4-1/2 pump-motor generator at Senator Wash. Unit 1-6			]						
California	51	LEVEE SYS	units)	Reserved	stator winding/refurbishment.	D	\$ 4,354,400	\$ 2,713,200						\$ 2,713,200 *
		COLO RVR	SENATOR WASH PUMPING											
California	51	FRON WORK & LEVEE SYS	GENERATING PLANT (6 units)	Reserved	Senator Wash HVAC and Fire Alarm System Modernization		\$ 2,794,800	\$ 1,667,000						\$ 1,667,000 *
Camornia	51	LEVEE SYS	umus)	Keserved	Senator wash HVAC and Fire Alarm System Modernization	L C	s 2,794,800	\$ 1,667,000			L	ı	L	a 1,667,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Asset Management Report List of Major Rehabilitation and Replacement Activities FY 2021-2050

										Fundin	g Categories*	N E I IE' '		
				Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financia	ng	ı
	Congressional	Authorized		Reserved		Categorization	Estimated Total		Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		COLO RVR	SENATOR WASH PUMPING											
C-1:6:-	51	FRON WORK & LEVEE SYS	GENERATING PLANT (6	December	Senator Wash O&M and PRIS recommendation maintenance	E	0.50.500	e 400.500						6 400 500
California	31	COLO RVR	SENATOR WASH	Reserved	repair and rehabilitation work Road Repair and Repaving: Senator Wash Rd - S24 to Ferguson	E	\$ 858,500	\$ 400,500						\$ 400,500
			SURFACING ACCESS		Rd, Senator Wash Rd - Ferguson Rd to McKinley Rd, and									
California	51	LEVEE SYS	ROAD	Reserved	Ferguson Rd - Senator Wash Rd south to end loop.	D	\$ 1,860,000			\$ 1,860,000				\$ 1,860,000
					Replace Chapay Lane Bridge (LCYA0260, NBI 0304-0007) and									
	51	CRBSP (TITLE 1) YUMA	Carriage Facilities/MODE		construct runoff controls to direct stormwater away from the abutment foundation soil.		s 1,200,000	s 120,000		\$ 1,080,000				s 1,200,000
California	31		Siphon/Bypass Drains Keep Carriage Facilities/MODE	Reserved	Clean out debris and sediment restricting flow in the Prison Hill	A	\$ 1,200,000	\$ 120,000		\$ 1,080,000				\$ 1,200,000
California	51	YUMA	Siphon/Bypass Drains Keep	Reserved	siphon (approximately 3,500 LF).	С	\$ 1,225,000	\$ 1,045,000						\$ 1.045,000
					Repair and replace sluiceway walls deteriorating concrete.	_	,,	.,,						.,,,,,,,,
California	51	YUMA PROJECT	CALIFORNIA SPILLWAY	Transferred	Replace all 12 sluiceway ladders. Includes part of 2010-2-B.	C	\$ 200,000						\$ 200,000	\$ 200,000
			I A CUBIA DIVERGIONI DANA											
California	51	VIIMA PROJECT	LAGUNA DIVERSION DAM AND HEADWORKS	Transferred	Refurbish and install Laguna Dam gate.	D	\$ 1,400,000						\$ 1,050,000	\$ 1,050,000
Camornia	31	TOMATROJECT	AND HEADWORKS	Transferred	Ketutoisii aliu ilistati Laguna Dani gate.	D	\$ 1,400,000						\$ 1,030,000	\$ 1,030,000
			LAGUNA DIVERSION DAM		Preserve the historical Y-100 "Indra/Swastika" bridge at Laguna									
California	51	YUMA PROJECT	AND HEADWORKS	Transferred	Dam. Additional fencing and interpretive signage to be added.	E	\$ 200,000	\$ 100,000	<u> </u>				L	\$ 100,000
			RESERVATION DIV.		Mohave Canal Lining: concrete lining one mile of the canal and									
California	51	YUMA PROJECT	LATERAL SYSTEM	Transferred	replacing deteriorated appurtenances.	D	\$ 1,317,800	\$ 658,900					\$ 658,900	\$ 1,317,800
California	51	YUMA PROJECT	RESERVATION DIV. LATERAL SYSTEM	Transferred	Yaqui Canal #1 lining replacement and canal upgrade.	С	\$ 1,122,700				]		\$ 1,122,700	\$ 1,122,700
Camornia	31	1 OWA PROJECT	RESERVATION DIV.	11diiSiCi1CU	r aqui Canai #1 finnig repiacement and canai upgrade.		9 1,122,700						9 1,122,700	φ 1,122,/00
California	51	YUMA PROJECT	LATERAL SYSTEM	Transferred	Seminole Canal upgrade design and lining replacement.	С	\$ 840,000				]		\$ 840,000	\$ 840,000
			RESERVATION DIV.											
California	51	YUMA PROJECT	LATERAL SYSTEM	Transferred	Replace the Five Gates structure on the Reservation Main Canal.	С	\$ 973,394	\$ 300,000					\$ 342,294	\$ 642,294
C-1:6	£1	VIIMA DROJECT	RESERVATION DIV.	T	6 61 li-i1	С	e 250,000						£ 250,000	250,000
California	51	YUMA PROJECT	LATERAL SYSTEM RESERVATION DIV.	1 ransferred	Sac Canal lining replacement.	-	\$ 259,000	1					\$ 259,000	\$ 259,000
California	51	YUMA PROJECT	LATERAL SYSTEM	Transferred	Tonowanda and Tonto Lateral turnout and check replacement.	С	\$ 191,346	\$ 171,346			]		Ì	\$ 171,346
		COLORADO-BIG			•									
		THOMPSON	ADAMS TUNNEL (West											
Colorado	2	PROJECT	half), WEST PORTAL	Reserved	West Portal: Refurbish Inlet Chamber	В	\$ 150,000	\$ 75,000				\$ 75,000		\$ 150,000
		COLORADO-BIG THOMPSON	CHARLES HANSEN FEEDER CANAL (Horsetooth											
Colorado	2	PROJECT	Feeder Canal)	Transferred	Cottonwood Siphon Rehabilitation	В	\$ 2,821,400	\$ 327,000				\$ 327,000		\$ 654,000
	_	COLORADO-BIG	EAST PORTAL DAM			_								
		THOMPSON	(Receives flow exiting Adams											
Colorado	2	PROJECT	Tunnel)	Reserved	Spillway concrete repair	A	\$ 2,656,000	\$ 2,342,600						\$ 2,342,600
		COLORADO-BIG THOMPSON	FARR PUMPING PLANT (FKA Granby Pumping Plant)											
Colorado	2	PROJECT	(3 units)	Transferred	Farr Pumping Plant: PLC Replacement	В	S 125,000	\$ 25,000				\$ 25,000		\$ 50,000
Cololado		COLORADO-BIG	(5 umb)	Transferred	Tail Tamping Tiant. The replacement		3 123,000	23,000				25,000		50,000
			FLATIRON PUMPING											
Colorado	2	PROJECT	PLANT (Unit 3, 370 cfs)	Reserved	Unit #3 Bypass repair (On Hold)	В	\$ 1,495,000				\$ 1,461,900			\$ 1,461,900
		COLORADO-BIG THOMPSON	FLATIRON PUMPING											
Colorado	2	PROJECT	PLANT (Unit 3, 370 cfs)	Reserved	Flatiron Embedded Pipe Rehabilitation	A	s 422,000				\$ 422,000			s 422,000
Colorado		COLORADO-BIG	LAW (OMES, 570 cm)	reserved	ration Embedded ripe renabilitation		9 422,000				3 422,000			422,000
		THOMPSON	FLATIRON PUMPING			1					]		Ì	j
Colorado	2	PROJECT	PLANT (Unit 3, 370 cfs)	Reserved	Flatiron U3 rehabilitation	В	\$ 165,000				\$ 165,000			\$ 165,000
		COLORADO-BIG	operation many			l								
Colorado	,	THOMPSON	GREEN MOUNTAIN POWERPLANT	Danama-J	P.a. lina nanataaks	B	\$ 17.544.200				\$ 8,086,900		Ì	\$ 8,086,900
Colorado		COLORADO-BIG	HORSETOOTH DAM,	Reserved	Re-line penstocks	B	o 1/,544,200	<del>                                     </del>			o 0,080,900		<del>                                     </del>	a 8,086,900
		THOMPSON	DIKES, RESERVOIR		Horsetooth Reservoir: Solider Canyon Outlet works rehab									
Colorado	2	PROJECT	(Offstream ZE)	Transferred	project	В	\$ 800,000	\$ 200,000	<u> </u>			\$ 200,000	L	\$ 400,000
		COLORADO-BIG			Remove all trees growing within 27 feet (left and right) of the									
Colorado	,	THOMPSON	RAMS HORN TUNNEL,	D 1	Aspen Creek Siphon alignment centerline by cutting the trees at the base of the trunks.	C	e 140.500	e 140.500			]		Ì	0 140.500
Colorado	2	PROJECT	ASPEN CREEK SIPHON	Reserved	the base of the trunks.	C	\$ 148,500	\$ 148,500						\$ 148,500
		ANIMAS LA-	Animas La Plata Operating		LEED maintenance and compliance for permanent operating	1					]		Ì	j
Colorado		PLATA PROJECT		Transferred	facility.	E	\$ 300,000				]		\$ 300,000	\$ 300,000
			-											
C-I I	,	ANIMAS LA-	Animas La Plata Operating	TC /	Daine all buildings	D	\$ 250,000				]		0.00000	0 250,000
Colorado	5	PLATA PROJECT	raciity	1 ransferred	Paint all buildings	D	a 250,000						\$ 250,000	\$ 250,000
		ANIMAS LA-												
Colorado	3		Durango Pumping Plant	Transferred	Rehab all 8 pumping units	D	\$ 850,000				]		\$ 650,000	\$ 650,000
		ANIMAS LA-		_	Upgrade SCADA, security, fire systems, computers, software	1	_				]		l.	
Colorado	3	PLATA PROJECT	Durango Pumping Plant	Transferred	(every 5 years)	E	\$ 600,000						\$ 600,000	\$ 600,000
		ANIMAS LA-				1		Ì					Ì	j
Colorado	3		Durango Pumping Plant	Transferred	Breaker and Bus maintenance	D	\$ 300,000	Ì					\$ 280,000	\$ 280,000
		Rozzei	g				. 500,000	1			1		200,000	. 200,000
		ANIMAS LA-			Seal/coat all concrete flooring to alleviate safety concerns									
Colorado	3	PLATA PROJECT	Durango Pumping Plant	Transferred	regarding spills.	C	\$ 100,000						\$ 100,000	\$ 100,000

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										Fundir	g Categories*			
	1			Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financi	ng I	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District			WOLKS	•	Kaung	Costs	Salety	Salety	rederai	Financing	water osers	rartiers	WK&K Total
Colorado	3	ANIMAS LA- PLATA PROJECT	Ridges Basin Dam and Reservoir	Transferred	Lake Nighthorse Recreation Area Electric, Water & Septic Utilities	С	\$ 10,000,000	\$ 5,000,000					\$ 5,000,000	\$ 10,000,000 *
Colorado	3	ANIMAS LA- PLATA PROJECT	Ridges Basin Dam and Reservoir	Transferred	Lake Nighthorse Recreation Area Roads	С	\$ 10,000,000	\$ 5,000,000					\$ 5,000,000	\$ 10,000,000 *
		ANIMAS LA-	Ridges Basin Dam and											
Colorado	3	PLATA PROJECT		Transferred	Fire mitigation on project lands	C	\$ 4,500,000	\$ 3,000,000					\$ 1,500,000	\$ 4,500,000 *
		ANIMAS LA-	Ridges Basin Dam and		Replace railcar superstructure bridge on the Mitigation Lands									
Colorado	3	PLATA PROJECT	Reservoir	Transferred	Area with a properly engineered bridge.	С	\$ 750,000						\$ 750,000	\$ 750,000 *
		ANIMAS LA-	Ridges Basin Dam and											
Colorado	3	PLATA PROJECT	Reservoir	Transferred	Rehab Basin Creek cattle fence	D	\$ 300,000	\$ 200,000					1	\$ 200,000 *
Colorado	,	ANIMAS LA- PLATA PROJECT	Ridges Basin Dam and Reservoir	Transferred	Seal coat all project asphalt - annual contracts at \$40,000 per year for 7 years	D	\$ 280.000						\$ 200,000	s 200,000 *
Colorado	3		Reservoir	Transferred		Б	\$ 280,000						\$ 200,000	\$ 200,000
Colorado	3	ANIMAS LA- PLATA PROJECT	Ridges Basin Dam and Reservoir	Transferred	Repair freeze-thaw damaged concrete on inlet energy dissipation structure	D	S 100,000						\$ 100,000	\$ 100,000 *
Cololado	, ,			riansierrea	brutture		100,000						¥ 100,000	100,000
Colorado	3	ANIMAS LA- PLATA PROJECT	Ridges Basin Dam and Reservoir	Transferred	Establish 5-year weed control contract for project lands	С	\$ 720,000	\$ 20,000						\$ 20,000 *
		ANIMAS I.A-	Ridges Basin Dam and											
Colorado	3	PLATA PROJECT		Transferred	Connect Power Line Road to Ridges Basin Access Road	D	\$ 1,500,000	\$ 1,500,000						\$ 1,500,000 *
		ANIMAS LA-												
Colorado	3		Ridges Basin Inlet Conduit	Transferred	Rehab cement mortar lining, rehab defective areas of pipe	D	\$ 400,000						\$ 400,000	\$ 400,000 *
Colorado	3	COLLBRAN PROJECT	Bonham Pipeline (Stream Inlet Pipeline)	Reserved	Rehabilitate Bonham Outlet Works Pipe	С	\$ 20,000,000	\$ 20,000,000						\$ 20,000,000 *
Colorado	3	COLLBRAN PROJECT	Bonham Pipeline (Stream Inlet Pipeline)	Reserved	Replace 10 Miles of Collection Pipe (18' to 36" Pipe)	С	\$ 10,000,000	\$ 10,000,000						\$ 10,000,000 *
		COLLBRAN	Cottonwood Pipeline (Branch			D								
Colorado	3	COLLBRAN	and Inlet Pipelines)	Reserved	Rehabilitate Cottonwood #2 Dam and Spillway.		\$ 1,000,000	\$ 1,000,000						\$ 1,000,000 *
Colorado	3	PROJECT	East Fork Diversion Dam	Reserved	Rehabilitate aging canal diversion dam Pipe approximately 1 mile of the open channel East Fork Feeder	D	\$ 5,000,000	\$ 5,000,000						\$ 5,000,000 *
		COLLBRAN			canal to prevent overtopping during winter operations caused by									
Colorado	3	PROJECT COLLBRAN	East Fork Feeder Canal	Reserved	ice.	В	\$ 750,000	\$ 750,000						\$ 750,000 *
Colorado	3	PROJECT COLLBRAN	Leon Creek Diversion Dam	Transferred	Rehabilitate Aging Canal Diversion Dam	D	\$ 5,000,000	\$ 1,750,000					\$ 3,250,000	\$ 5,000,000 *
Colorado	3	PROJECT	Lower Molina Power Facility	Reserved	Replace Generator Step Up Transformers	С	\$ 1,400,000	\$ 1,400,000						\$ 1,400,000 *
Colorado	3	COLLBRAN PROJECT	Lower Molina Power Facility	Reserved	Replace Station Service Switchgear & Unit Breakers	С	\$ 835,000	\$ 835,000						\$ 835,000 *
Colorado	3	COLLBRAN PROJECT	Park Creek Diversion Dam	Transferred	Rehabilitate aging Park Creek Diversion Dam	D	\$ 5,000,000	\$ 1,750,000					\$ 3,250,000	\$ 5,000,000 *
	3	COLLBRAN			Construct alternative alignment to protect the conveyance	Б								
Colorado	3	PROJECT COLLBRAN	Southside Canal	Transferred	system from failure due to encroaching landslide	A	\$ 24,000,000	\$ 8,400,000			-		\$ 15,600,000	\$ 24,000,000
Colorado	3	PROJECT	Upper Molina Power Facility	Reserved	Replace Generator Step Up Transformers	С	\$ 1,559,624	\$ 1,400,000						\$ 1,400,000 *
Colorado	3	COLLBRAN PROJECT	Upper Molina Power Facility	Reserved	Replace Station Service Switchgear & Unit Breakers	С	\$ 835,000	\$ 835,000						\$ 835,000 *
Colorado	3	COLLBRAN PROJECT	Upper Molina Power Facility	Reserved	Install wye on Upper Molina penstock	С	\$ 700,000	s 700.000						s 700,000 *
		COLLBRAN			Vega State Park - Repave roads and parking areas within Oak Point Camperound.	C					1			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Colorado	3	PROJECT COLLBRAN	Vega Recreation Area	Transferred			\$ 1,458,060	\$ 729,030			<del>                                     </del>		\$ 729,030	\$ 1,458,060 *
Colorado	3	PROJECT COLLBRAN	Vega Recreation Area	Transferred	Vega State Park, Boating Facilities - ANS Vega State Park, Water/Sewer/Electric Line Repair and	С	\$ 1,010,000	\$ 500,000			-		\$ 510,000	\$ 1,010,000 *
Colorado	3	PROJECT	Vega Recreation Area	Transferred	Replacement	С	\$ 1,000,000	\$ 500,000					\$ 500,000	\$ 1,000,000 *
Colorado	3	COLLBRAN PROJECT	Vega Recreation Area	Transferred	Vega State Park Natural Resources (Fencing & Boundary Protection, Weed Management, Timber/Forestry Management)	С	s 829,000	\$ 400,000					\$ 400,000	\$ 800,000 *
Colorado	3	COLLBRAN PROJECT	Vega Recreation Area	Transferred	Vega State Park, Aspen Grove Campground	С	\$ 500,000	\$ 250,000					\$ 250,000	s 500,000 *
		COLLBRAN				Ü								
Colorado	3	PROJECT COLLBRAN	Vega Recreation Area	Transferred	Vega State Park, Early Settlers Campground	C	\$ 500,000	\$ 250,000			-		\$ 250,000	\$ 500,000 *
Colorado	3	PROJECT	Vega Recreation Area	Transferred	Vega State Park, Fishing and Day-Use Areas	D	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,000 *
Colorado	3	COLLBRAN PROJECT	Vega Recreation Area	Transferred	Vega State Park, Oak Point Campground	D	\$ 770,000	\$ 250,000					\$ 250,000	\$ 500,000 *
Colorado	3	COLLBRAN PROJECT	Vega Recreation Area	Transferred	Vega State Park, Visitor Center and Maintenance Yards/Shops	С	\$ 500,000	\$ 250,000		-			\$ 250,000	\$ 500,000 *
		COLLBRAN											. 220,000	
Colorado	3	PROJECT COLLBRAN	Vega Recreation Area	Transferred	Seal cracks in all project asphalt -580,000 sf	С	\$ 400,000	\$ 400,000			<del>                                     </del>			\$ 400,000 *
Colorado	3	PROJECT	Vega Recreation Area	Transferred	Vega State Park, Island Campground	D	\$ 200,000	\$ 100,000					\$ 100,000	\$ 200,000 *

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										Fundi	g Categories*			1
									Appropriated			Non-Federal Financir	ıg	
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total Costs	Reclamation Excluding Dam Safety		Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		CRBSP - GRAND			Building maintenance to include HVAC, bathroom, and						Ŭ			
Colorado	3	VALLEY UNIT	Peters Property House	Reserved	appliances.	D	\$ 55,000	\$ 55,000						\$ 55,000
		CRBSP - PARADOX	Paradox Injection Well (Deep Well For Brine Injection											
Colorado	3	VALLEY UNIT	Facility)	Reserved	Replace PLC/SCADA system upgrades	С	\$ 360,000	\$ 270,000			\$ 90,000			\$ 360,00
Colorado		CRBSP -	Paradox Injection Well (Deep	Reserved	Replace F De/De/DA system upgrades	- Č	3 300,000	270,000			3 70,000			3 300,00
		PARADOX	Well For Brine Injection											
Colorado	3	VALLEY UNIT	Facility)	Reserved	Replace Injection Facility low pressure piping	C	\$ 150,000	\$ 120,000			\$ 30,000			\$ 150,00
		CRBSP - PARADOX	Paradox Injection Well (Deep Well For Brine Injection											
Colorado	3	VALLEY UNIT	Facility)	Reserved	Rebuild BIF main transformers	С	S 100,000	\$ 75,000			\$ 25,000			\$ 100.00
		CRSP, NAVAJO	<i>''</i>											
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	Rehabilitate 72" HJVs	D	\$ 2,500,000				\$ 2,500,000			\$ 2,500,0
Colorado	2	CRSP, NAVAJO UNIT	Navajo Dam and Reservoir	Reserved	Contract Modification for boat inspections & deconamination activities at 2 BOR reservoirs.	C	\$ 1.685,000	\$ 1,585,000						\$ 1,585.00
Joiorado	3	CRSP, NAVAJO	Navajo Dam and Reservoir	Reserved	activities at 2 BOR reservoirs.		\$ 1,083,000	\$ 1,383,000						\$ 1,383,0
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	Rehabilitate 4X4 gates	D	\$ 2,000,000				\$ 1,250,000			\$ 1,250,00
		CRSP, NAVAJO												
Colorado	3	UNIT CRSP, NAVAJO	Navajo Dam and Reservoir	Reserved	Spillway concrete repair	D	\$ 750,000	\$ 750,000						\$ 750,00
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	Rehabilitate/Replace penstock mounts.	D	\$ 600,000				\$ 600,000			\$ 600,0
Colorado	Ĭ	CRSP, NAVAJO	Travajo Dani and Iceservon	reserved	remonato repaico pensoca monto.	2	000,000				\$ 000,000			\$ 000,00
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	Rockfall Remediation	D	\$ 750,000	1			\$ 600,000			\$ 600,0
		CRSP, NAVAJO												
Colorado	3	UNIT CRSP, NAVAJO	Navajo Dam and Reservoir	Reserved	Rehabilitate/Replace old shop building	D	\$ 400,000	<u> </u>			\$ 400,000			\$ 400,00
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	Metalwork replacement in outlet works	D	\$ 350,000	\$ 350,000						\$ 350.00
		CRSP, NAVAJO												
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	Install new automated instrumentation system.	D	\$ 350,000				\$ 350,000			\$ 350,0
Colorado	2	CRSP, NAVAJO UNIT	Navaio Dam and Reservoir	Reserved	Replace gabion baskets with concrete left abutment.	D	s 350,000				\$ 350,000			s 350.0
Joiorado	3	CRSP, NAVAJO	Navajo Dam and Reservoir	Reserved	Replace gabion baskets with concrete left abutment.	D	\$ 330,000	'			\$ 330,000			\$ 330,0
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	SCADA Installation	D	\$ 300,000	\$ 300,000						\$ 300,0
		CRSP, NAVAJO												
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	Remove/inspect/rehabilitate 6x13 fixed wheel gate.	D	\$ 250,000				\$ 250,000			\$ 250,0
Colorado	3	CRSP, NAVAJO UNIT	Navajo Dam and Reservoir	Reserved	Replace security fence around shop/6X13/bone yard.	С	\$ 150,000				\$ 150,000			\$ 150,0
Colorado	,	OIVII	ivavajo Dani and reservon	Reserved	Assist the New Mexico Department of Game and Fish with the	Č	3 130,000				3 130,000			3 150,0
					operation and maintenance of a watercraft inspection program									
0.11	3	CRSP, NAVAJO UNIT	N . D . ID .	D 1	including infrastructure improvements such as physical control	C	\$ 500,000				\$ 150,000			s 150.0
Colorado	3	CRSP, NAVAJO	Navajo Dam and Reservoir	Reserved	of lake boat launch access facilities and boater education.  Wetland improvements for enhancement of New Mexico	C	\$ 500,000	'			\$ 150,000			\$ 150,0
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	meadow jumping mouse	D	\$ 120,000	\$ 60,000						\$ 60,0
		CRSP, NAVAJO												
Colorado	3	UNIT	Navajo Dam and Reservoir	Reserved	San Juan River Access improvements and parking	D	\$ 70,000	\$ 35,000						\$ 35,0
Colorado	3	CRSP, NAVAJO UNIT	Navajo Reservoir Colorado Recreation Area	Transferred	Navajo State Park Boating Facilities - ANS & Marina	C	\$ 5,000,000	\$ 2,500,000					\$ 2,500,000	\$ 5,000,0
Joiorado	,	UNII	Recreation Area	Hansiered	Navajo State Park Natural Resources		3 3,000,000	3 2,300,000					3 2,300,000	3 3,000,0
		CRSP, NAVAJO	Navajo Reservoir Colorado		(Fencing & Boundary Protection, Weed Management,									
Colorado	3	UNIT	Recreation Area	Transferred	Timber/Forestry Management)"	C	\$ 4,000,000	\$ 2,000,000					\$ 2,000,000	\$ 4,000,0
Colorado	3	CRSP, NAVAJO UNIT	Navajo Reservoir Colorado Recreation Area	Transferred	Navajo State Park Visitor Center and Maintenance Yards/Shops	С	\$ 2,000,000	s 1,000,000					\$ 1,000,000	\$ 2,000,0
Loiorado	3	CRSP, NAVAJO	Navajo Reservoir Colorado	Transferred	Navajo State Park Visitor Center and Maintenance Tards/Snops Navajo State Park Water/Sewer/Electric Line Repair and	C	\$ 2,000,000	\$ 1,000,000					\$ 1,000,000	\$ 2,000,0
Colorado	3	UNIT	Recreation Area	Transferred	Replacement	C	\$ 2,000,000	\$ 1,000,000					\$ 1,000,000	\$ 2,000,0
		CRSP, NAVAJO	Navajo Reservoir Colorado											
Colorado	3	UNIT CRSP, NAVAJO	Recreation Area Navajo Reservoir Colorado	Transferred	Navajo State Park Roads and Parking	С	\$ 1,800,000	\$ 900,000					\$ 900,000	\$ 1,800,0
Colorado	3	UNIT	Recreation Area	Transferred	Navajo State Park Carracas CG	D	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,0
	1	CRSP, NAVAJO	Navajo Reservoir Colorado	- minorened										
Colorado	3	UNIT	Recreation Area	Transferred	Navajo State Park Primitive Sites	D	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,0
S-1 1	3	CRSP, NAVAJO	Navajo Reservoir Colorado	T C .	Name - Charle Bard Bara - CC	D	e 500.000	0.000.000					6 250.000	
Colorado	3	UNIT CRSP, NAVAJO	Recreation Area Navajo Reservoir Colorado	Transferred	Navajo State Park Rosa CG	D	\$ 500,000	\$ 250,000	1		1	1	\$ 250,000	\$ 500,00
Colorado	3	UNIT	Recreation Area	Transferred	Navajo State Park Sambrito Wildlife Area	D	\$ 560,000	\$ 250,000					\$ 250,000	\$ 500,00
		CRSP, NAVAJO	Navajo Reservoir Colorado											
Colorado	3	UNIT	Recreation Area	Transferred	Navajo State Park Tiffany Cabins	D	\$ 500,000	\$ 250,000	ļ		-		\$ 250,000	\$ 500,00
Colorado	3	CRSP, NAVAJO UNIT	Navajo Reservoir Colorado Recreation Area	Transferred	Navajo State Park Tiffany CG	D	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,00
Colorado	1	CRSP, NAVAJO	Navajo Reservoir Colorado	riansicired	rango Saao Laik Tiliany CO		500,000	250,000	<b>†</b>		<del>                                     </del>	<b>†</b>	250,000	300,00
Colorado	3	UNIT	Recreation Area	Transferred	Navajo State Park San Juan Arm DU	D	\$ 250,000	\$ 125,000					\$ 125,000	\$ 250,00
		CRSP, NAVAJO	Navajo Reservoir Colorado			-								
Colorado	3	UNIT CRSP NAVAIO	Recreation Area	Transferred	Navajo State Park Piedra DU	D	\$ 160,000	\$ 80,000	<b> </b>		1	ļ	\$ 80,000	\$ 160,00

160,000

1,000,000

80,000

160,000

1,000,000 \*

CRSP, NAVAJO

ASPINALL UNIT

CRSP, W N

UNIT

Colorado

Navajo Reservoir Colorado

Recreation Area

RESERVOIR

Blue Mesa Dam and

Navajo State Park Windsurf Beach DU

ebuild Pine Creek Trail Road (the Blue Mesa access road that

s open to the public, from Highway 50 to Reclamation's gate).

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*	V 7 1 17 1		
		1		Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financin	g	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
Colorado	3	CRSP, W N ASPINALL UNIT	Blue Mesa Power Facility	Reserved	Replace Butterfly Valves - Repair/refurbish/retrofit two existing 156" butterfly valves (BFV's), in place.	В	\$ 10,730,000				\$ 9,748,592			\$ 9,748,592
Colorado	3	CRSP, W N ASPINALL UNIT	Blue Mesa Power Facility	Reserved	Turbine Design & Upgrade	D	\$ 8,075,000				\$ 8,075,000			\$ 8,075,000
							,,,,,,,,				,,			,,,,,,,,,
Colorado	3	CRSP, W N ASPINALL UNIT	Blue Mesa Power Facility	Reserved	Replace Static Exciters	A	\$ 4,887,768				\$ 2,800,000			\$ 2,800,000
Colorado	3	CRSP, W N ASPINALL UNIT	Blue Mesa Power Facility	Reserved	Modernize the unit and plant level control systems in the Fontenelle, Blue Mesa, Crystal, Morrow Point, Flaming Gorge, and Glen Canyon powerplants.	В	\$ 3,294,200				\$ 2,021,864			\$ 2,021,864
Colorado	3	CRSP, W N	Blue Mesa Power Facility	Reserved	Rewind Generator	A	\$ 16,739,264				\$ 1,715,060			\$ 1,715,060
Colorado	3	CRSP, W N	Blue Mesa Power Facility	Reserved	Replacement of Unit Breakers & Bus	В	\$ 3,679,778				\$ 1,225,602			\$ 1,225,602
	3	CRSP, W N												
Colorado	3	CRSP, W N	Blue Mesa Power Facility  Blue Mesa Power Facility	Reserved Reserved	Pave Lower Section of Powerplant Access Road  Replace HVAC System - The inclusion of this item is based primarily on age and service life.	E D	\$ 500,000 \$ 400,000				\$ 500,000 \$ 400,000			\$ 500,000 °
Colorado	3	CRSP, W N	Blue Mesa Power Facility	Reserved	Replace Engine Generator	E	\$ 375,000				\$ 375,000			\$ 375,000
Colorado	3	CRSP, W N	Blue Mesa Power Facility	Reserved	Chip/Seal Access Road	E	\$ 180,000				\$ 180,000			\$ 180,000
Colorado	3	CRSP, W N	Blue Mesa Power Facility	Reserved	Replace Governor Air Compressors	С	\$ 10,000				\$ 10,000			\$ 10,000
Colorado	3	CRSP, W N	Crystal Power Facility	Reserved	Turbine Design & Upgrade	D	\$ 4,075,000				\$ 4,075,000			\$ 4,075,000
Colorado	3	CRSP, W N	Crystal Power Facility	Reserved	Generator Transformer KRA - Mitigate issues resulting from corrosive oil.	C	\$ 2,200,000				\$ 2,200,000			\$ 2,200,000
		CRSP. W N			Station Service DSA Switchgear	_					_,_,,,,,,,			
Colorado	3	ASPINALL UNIT	Crystal Power Facility	Reserved	Modernize the unit and plant level control systems in the	С	\$ 1,684,208				\$ 1,546,000			\$ 1,546,000
Colorado	3	CRSP, W N ASPINALL UNIT	Crystal Power Facility	Reserved	Fontenelle, Blue Mesa, Crystal, Morrow Point, Flaming Gorge, and Glen Canyon powerplants.	В	\$ 1,647,100				\$ 1,015,000			\$ 1,015,000
Colorado	3		Crystal Power Facility	Reserved	Replacement of outdoor 11.5KV Bus	С	\$ 297,215				\$ 281,713			\$ 281,713
Colorado	3	CRSP, W N ASPINALL UNIT	Crystal Power Facility	Reserved	Replace Governor Air Compressors	C	\$ 10,000				\$ 10,000			\$ 10,000
Colorado	3	CRSP, W N ASPINALL UNIT	Morrow Point Dam and Reservoir	Reserved	Rehabilitate and repave the Morrow Point Access Road from the junction point with Hwy 50 to the entrance gate to Morrow Point Power Plant.	D	\$ 1,319,654			\$ 1,319,654				\$ 1,319,654
Colorado	3	CRSP, W N ASPINALL UNIT	Morrow Point Dam and Reservoir	Reserved	Chip Seal Access Road	Е	\$ 200,000				\$ 200,000			\$ 200,000
		CRSP. W N			Replace the existing 3 single-phase oil-filled main step-up transformers (collectively known as KRA) with a single 3-phase gas-insulated (SF6) transformer. Replace the existing transformer vault room fire barrier wall with a new fire and blast									
Colorado	3		Morrow Point Power Facility	Reserved	rated wall large to accommodate the new 3-phase gas-insulated transformer.	В	\$ 22,861,098				\$ 22,152,611			\$ 22,152,611
Colorado	3	ASPINALL UNIT	Morrow Point Power Facility	Reserved	Design/Spec Generator Rewind	D	\$ 15,200,000				\$ 15,200,000			\$ 15,200,000
Colorado	3	CRSP, W N ASPINALL UNIT	Morrow Point Power Facility	Reserved	Turbine Design & Upgrade  Modernize the unit and plant level control systems in the	D	\$ 7,875,000				\$ 7,875,000			\$ 7,875,000
Colorado	3	CRSP, W N ASPINALL UNIT	Morrow Point Power Facility	Reserved	Fontenelle, Blue Mesa, Crystal, Morrow Point, Flaming Gorge, and Glen Canyon powerplants.	В	\$ 3,294,200				\$ 1,485,508			\$ 1,485,508
Colorado	3	CRSP, W N ASPINALL UNIT	Morrow Point Power Facility	Reserved	Replace 15KV Cable	С	\$ 900,000				\$ 900,000			\$ 900,000
Colorado	3	CRSP, W N ASPINALL UNIT	Morrow Point Power Facility	Reserved	Renovate Visitor Center	С	\$ 512,503				\$ 478,823			\$ 478,823
Colorado	3	CRSP, W N ASPINALL UNIT	Morrow Point Power Facility	Reserved	Replace Visitor Center's Roof	A	\$ 512,502				\$ 322,502			\$ 322,502
Colorado	3	CRSP, W N ASPINALL UNIT	Morrow Point Power Facility	Reserved	Replace HVAC System	В	\$ 362,502				\$ 237,502		_	\$ 237,502
Colorado	3	DALLAS CREEK PROJECT	Ridgway Recreation Area	Transferred	Ridgway State Park, Cow Creek Campground	С	\$ 2,349,999	\$ 1,018,984					\$ 1,331,015	\$ 2,349,999
Colorado	3	DALLAS CREEK PROJECT	Ridgway Recreation Area	Transferred	Ridgway State Park, Roads and Parking	С	\$ 1,800,000	\$ 900,000					\$ 900,000	\$ 1,800,000
Colorado	3	DALLAS CREEK PROJECT	Ridgway Recreation Area	Transferred	Ridgway State Park, Water/Sewer/Electric Line	С	\$ 1,612,800	\$ 806,400					\$ 806,400	\$ 1,612,800
Colorado	3	DALLAS CREEK PROJECT	Ridgway Recreation Area	Transferred	Ridgway State Park Boating Facilities - Marina and ANS	C	\$ 1,080,000	\$ 580,000					\$ 500,000	\$ 1,080,000

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										Fundir	g Categories*			]
	1	1		Transferred /	T	MR&R	ı	Reclamation	Appropriated			Non-Federal Financia	ng	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
Colorado	3	DALLAS CREEK PROJECT	Ridgway Recreation Area	Transferred	Group use campground in Dallas Creek Rec. Area	D	\$ 1,000,000	\$ 500,000					\$ 500,000	\$ 1,000,000
Colorado	3	DALLAS CREEK PROJECT	Ridgway Recreation Area	Transferred	Ridgway State Park, Cow Creek Day Use Area	D	\$ 1,000,000	\$ 500,000					\$ 500,000	\$ 1,000,000
Colorado	3	DALLAS CREEK PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Ridgway State Park, Dallas Creek Day-Use Area Ridgway State Park, Visitor Center and Maintenance	D	\$ 1,000,000	\$ 500,000					\$ 500,000	\$ 1,000,000
Colorado	3		Ridgway Recreation Area	Transferred	Yards/Shops	С	\$ 1,000,000	\$ 475,000					\$ 475,000	\$ 950,000
Colorado	3	DALLAS CREEK PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Ridgway State Park Natural Resources (Fencing & Boundary Protection, Weed Management, Timber/Forestry Management)"	С	\$ 800,000	\$ 400,000					\$ 400,000	\$ 800,000
Colorado	3	PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Wastewater Lift Station Replacement: Repair and replace 4 of 7 Lift stations	С	\$ 613,000	\$ 306,500					\$ 306,500	\$ 613,000
Colorado	3	PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Contract small campground for seasonal staff and volunteers Cost share funding for aging recreation infrastructure, Ridgway	D	\$ 500,000	\$ 500,000						\$ 500,000
Colorado	3	PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	State Park	С	\$ 500,000	\$ 500,000						\$ 500,000
Colorado	3	PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Dakota Terraces Campground	D	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,000
Colorado	3	PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Ridgway State Park Elk Ridge Campground	D	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,000
Colorado	3	PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Road Repairs Enhancements to small maintenance compound in Cow Creek	D	\$ 500,000	\$ 500,000						\$ 500,000
Colorado	3	PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Rec. Area	D	\$ 250,000	\$ 125,000					\$ 125,000	\$ 250,000
Colorado	3	PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Renovations to Park Headquarters/Visitors Center	D	\$ 200,000	\$ 100,000					\$ 100,000	
Colorado	3	PROJECT DALLAS CREEK	Ridgway Recreation Area	Transferred	Funding for ANS Inspection and Decontamination Station	С	\$ 175,000	\$ 175,000						\$ 175,000
Colorado	3	PROJECT	Ridgway Recreation Area	Transferred	Fire Management Program to reduce fire fuels  Analyze hydraulics and redesign/correct stilling basin to	D	\$ 100,000	\$ 100,000						\$ 100,000
Colorado	3	DOLORES PROJECT	Great Cut Dike (Dolores River)	Transferred	minimize milling and repair existing damage at Lone Pine outlet works.	A	\$ 4,000,000	\$ 600,000					\$ 3,400,000	\$ 4,000,000
		nor once												
Colorado	3	DOLORES PROJECT	Great Cut Pumping Plant McPhee Dam and Reservoir	Transferred	Great Cut Pumping Plant Excitation rehabilitation	Е	\$ 649,000						\$ 649,000	\$ 649,000
Colorado	3	DOLORES PROJECT	(Dolores River Zoned Earthfill)	Transferred	Major repairs to concrete spillway	E	\$ 1,500,000						\$ 1,500,000	\$ 1,500,000
Colorado	3	DOLORES PROJECT	Towaoc Canal	Transferred	Major rehabilitation of the Towaoc Reach 3 is needed. In general, most of the existing canal lining needs replacing.	С	\$ 2,000,000						\$ 2,000,000	\$ 2,000,000
Colorado	3	DOLORES PROJECT FLORIDA	Towaoc Canal	Transferred	Riprap replacement throughout Towaoc Highline Canal Pipe 6.8-mile section of Florida Canal from headgate to Squaw	Е	\$ 750,000	\$ 232,500					\$ 517,500	\$ 750,000
Colorado	3	PROJECT FLORIDA	Florida Canal	Transferred	Apple Road Line 2.6-mile section of canal south of the Reservoir Ditch.	D	\$ 10,501,920						\$ 10,501,920	\$ 10,501,920
Colorado	3	PROJECT	Florida Canal	Transferred	Estimated seepage loss without lining is 3,000 AFY.  5.2 Miles of canal lining: 2.5 miles on Florida Farmers Ditch	D	\$ 4,622,218						\$ 4,622,218	\$ 4,622,218
Colorado	3	FLORIDA PROJECT	Florida Canal	Transferred	West; 2.7 miles from CR 172 to Pastorius Reservoir. Estimated Savings of 2,943 AFY.	D	\$ 7,900,000				\$ 2,633,334			\$ 2,633,334
Colorado	3	FLORIDA PROJECT	Florida Canal	Transferred	Line 1.6 miles of canal from the Hwy 160 reach to below Grandview.	D	\$ 2,284,340						\$ 2,284,340	\$ 2,284,340
Colorado	3	FLORIDA PROJECT	Florida Ditch Diversion Dam	Transferred	Diversion dam is near or reaching design life, and extensive repairs may be needed in the next 30 years to ensure reliable water delivery.	С	\$ 2,000,000						\$ 2,000,000	\$ 2,000,000
		FLORIDA	Lemon Dam and Reservoir (Florida River Rolled Earth		Replacement of main guard gates seats, seals, and ancillary									
Colorado	3	PROJECT FLORIDA	and Rockfill) Lemon Dam and Reservoir (Florida River Rolled Earth	Transferred	equipment	С	\$ 1,870,000						\$ 1,870,000	\$ 1,870,000
Colorado	3	PROJECT	(Florida River Rolled Earth and Rockfill) Lemon Dam and Reservoir	Transferred	Perform comprehensive evaluation and report of operations, infrastructure, and delivery system.  Fund costs of personnel and maintenance for 5 years of	D	\$ 227,500						\$ 227,500	\$ 227,500
Colorado	3	FLORIDA PROJECT	(Florida River Rolled Earth and Rockfill)	Transferred	operation of an aquatic nuisance species watercraft inspection station.	D	\$ 342,300				\$ 205,380			\$ 205,380
Colorado	3	FLORIDA PROJECT	Lemon Dam and Reservoir (Florida River Rolled Earth and Rockfill)	Transferred	Concrete repairs to spillway.	E	\$ 250,000						\$ 150,000	\$ 150,000
		FLORIDA PROJECT	Lemon Dam and Reservoir (Florida River Rolled Earth and Rockfill)		Replace high pressure gate hydraulic fluid lines which are prone	C	s 130,000						\$ 130,000	
Colorado	3	PROJECT FLORIDA	Lemon Dam and Reservoir	Transferred	to leakage and frequent repairs.	С	\$ 130,000						\$ 130,000	\$ 130,000
Colorado	3	PROJECT FLORIDA	(Florida River Rolled Earth and Rockfill)	Transferred	Contract with NRCS to install and operate (5 years) for 2 SnoTel sites in the Lemon Reservoir drainage basin. Maintenance and repairs including roofing, siding, plumbing,	D	\$ 100,000				\$ 60,000			\$ 60,000
Colorado	3	PROJECT FLORIDA	O and M Service Building	Transferred	windows, sidewalk repairs.  Maintenance and repairs including roofing, plumbing, windows,	С	\$ 200,000						\$ 200,000	\$ 200,000
Colorado	3	PROJECT	Residence	Transferred	floor coverings, cabinets, and fixtures.	C	\$ 225,000						\$ 225,000	\$ 225,000

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Company   Comp											Fundin	g Categories*			
Martin   M										Appropriated			Non-Federal Financia	ıg	
Company   Comp	State			Asset Name	Reserved	Brief Description of Work Needed	Categorization		Excluding Dam						
Column   C			FRUITGROWERS												
PATTONOMERS   Province (Author)   Province   Province (Author)   Province	Colorado	3	DAM PROJECT		Transferred	Rehabilitate Aging Canal Diversion Dam	D	\$ 5,000,000						\$ 5,000,000	\$ 5,000,000
Columb   C			EDITICO												
Columb   C	Colorado	3			Transferred	Install Downstream filter on Dam Embankment	D	\$ 10,000,000						\$ 10,000,000	\$ 10,000,000
Calcade   1	Colorado		Dimirkon		Timbicited	instan Downsteam free on Dam Enfoamenen		10,000,000						10,000,000	10,000,000
STATISTICATION   Progress of Control   Statistical Control   Sta															
PRINCIPATIVE Service (ASSES) 182   Principation	Colorado	3	DAM PROJECT		Transferred	Replace Outlet Works Valves and Piping	D	\$ 500,000						\$ 500,000	\$ 500,000
Canada   1   MAN PROCES   Security   Secur			EDI IITGDOWEDS												
PRINCIPATION   PRIN	Colorado	3			Transferred	Roads and Parking Areas	E	\$ 200,000	\$ 200,000						\$ 200,000
Columbia   S.   MATERIORY   Responses Entation   Tender															
Processor   Proc		_					_								
PRINTINGENIES   Reversit (Albit But   Principle   Pr	Colorado	3	DAM PROJECT		Transferred		Е	\$ 100,000	\$ 100,000						\$ 100,000
Calendo   3   SAMPSONE   Secretary   Sec			FRUITGROWERS												
ALAGANSAN   ONTHERRY COLLETON   Passend   Pa	Colorado	3	DAM PROJECT		Transferred	Timber/Forestry Management)	E	\$ 100,000	\$ 100,000						\$ 100,000
Calendar   3   PROBET   SYSTEM   Reverse   Calendar   International Property   1   1   1   1   1   1   1   1   1															
SANSWARD   SANSWARD	0.11	2			ъ .	G . I T II II II D .		6 1 022 100	6 1 000 500						6 1,000,500
ANSANSAN   ORTH SIDE COLLECTION   Reserved   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River Free Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River River Bulgs   Registerate of the Fryingers River River Bulgs	Colorado	3		SYSIEM	Reserved	Cunningham Tunnel Invert Lining Repair	C	\$ 1,922,100	\$ 1,880,500						\$ 1,880,500
PRINCE   STANDARD   PRINCE				NORTH SIDE COLLECTION											
ABKANSAN   NORTH SIDE COLLECTION   Reserved   Collection print mit enter replacement   A   S   1,10,000   S   651,000   S   65	Colorado	3			Reserved	Replacement of the Fryingpan River Foot Bridge.	В	\$ 690,000	\$ 690,000						\$ 690,000
ABKANSAN   NORTH SIDE COLLECTION   Reserved   Collection print mit enter replacement   A   S   1,10,000   S   651,000   S   65			EDVINCEAN	<u> </u>											
Columba   3   PRODECT   SYSTEM   Reverse   Columba   5   5   5   5   5   5   5   5   5				NORTH SIDE COLLECTION											
PRYNCPAN   ANALYSIS   Columb   3   PRYNCPAN   ANALYSIS   Columb   3   PRYNCPAN   ANALYSIS   Columb   5   23,577,200	Colorado	3			Reserved	Collection system actuator replacement	A	\$ 1,110.800	\$ 651.800						\$ 651,800
Calendo   3   ARSANSS   ArSanes Nov 2E   Constitution processes, more life for sublify, and rotter   1   1   1   1   1   1   1   1   1								, ,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						/***
Calenda   S   PRODECT   Probabation   Regree   Section and minimum conds.   A   S   5,556,200   2,23,272,00   S   S   23,572,300   S						Repairing the contraction joints will reduce leakage, decrease									
Colonab	0.11	2			ъ .			6 25.05( 200	6 22 527 200						6 22 527 200
Columbo   SARKANSAS   SOUTH SIDE COLLECTION   Reserved   Collection system actuator replacement   A   \$ 1,071,200   \$ 651,700   \$ 5,050,000	Colorado	3	PROJECT	Embankment)	Reserved	operation and maintenance costs.	A	\$ 35,856,200	\$ 23,327,200						\$ 25,527,200
Colorado   3   PRODECT   SYSTEM   Reserved   Collection system attentor replicement   A   \$ 1,073,20   \$ 63,700   \$ 63,			FRYINGPAN-												
SETTINGENNA   SOUTH SIDE COLLECTION   ARKANASA   SOUTH SIDE COLLECTION   ARKANASA   SOUTH SIDE COLLECTION   ARKANASA   SOUTH SIDE COLLECTION   ARKANASA   SOUTH SIDE COLLECTION   SYSTEM   ARKANASA   SOUTH SIDE COLLECTION   SYSTEM   ARKANASA   SOUTH SIDE COLLECTION   SYSTEM   ARKANASA   SOUTH SIDE COLLECTION   SYSTEM   SYSTEM   SOUTH SIDE COLLECTION   SYSTEM															
ARKNASS   SOUTH SIDE COLLECTION   Reserved   Southern Times   Reserved   Southern Times   Reserved   Southern Times   South	Colorado	3		SYSTEM	Reserved	Collection system actuator replacement	A	\$ 1,073,200	\$ 651,700						\$ 651,700
Calonada   3   PRODECT   SYSTIM   Reserved   Southerd Tumod Verap looks celling   S   S   1,468,000   S   495,700   S   50,000,000   S   1,0				SOUTH SIDE COLLECTION											
Colorado   3   PROJECT   Grand Valley Diversion Dam   Transferred   School of Colorado   3   PROJECT   Grand Valley Diversion Dam   Transferred   genes, modify described system at the dam, percent vert training with the property vert and the property ver	Colorado	3			Reserved	Boustead Tunnel Weep holes drilling	В	\$ 1,468,000	\$ 495,700						\$ 495,700
Calorado   3   PROJECT   Comed Valley Diversion Dum   Transferred gates   2   3   1,000,000						Repair concrete and stabilize structure, rehab roller gates,		, , , , , , , , , , , , , , , , , , , ,							
Colorado   3   PROJECT   Grand Valley Devernient   Grand Valley Government   Colorado   GRAND VALLEY   Grand Valley Government   Righline Canal   System   Fapair damage to concrete at an analysis   Colorado   S   PROJECT   Grand Valley Power Plant   Transferred   Transferred   Tran															
Colorado   3   PROJECT   Highlin Canal   Transferred   Rehabilitate Aging Canal System   D   \$ 20,000,000   \$ 20	0.11	2			T. C. I			6 17,000,000						6 16 000 000	e 16,000,000 s
Colorado   3   PROJECT   Highline Cinnal   Transferred   Rebabilitates Aging Canal System   D   \$   2,000,000     \$   \$   \$   \$   2,000,000   \$   \$   \$   \$   2,000,000   \$   \$   \$   \$   2,000,000   \$   \$   \$   2,000,000   \$   \$   \$   2,000,000   \$   \$   \$   2,000,000   \$   \$   2,737,500   \$   \$   2,737,500   \$   \$   2,737,500   \$   \$   2,737,500   \$   \$   2,737,500   \$   2,737,	Colorado	3	PROJECT	Grand Valley Diversion Dam	Transferred	gates.	C	\$ 17,000,000		+				\$ 16,000,000	\$ 16,000,000
Colorado   3   PROJECT   Firmed Valley Power Plant   Transferred   Final Part   Firmed Valley Power Plant   Transferred   Firmed Valley Power Plant   Transferred   Firmed Valley Power Plant   Transferred   Firmed Valley Power Plant   Firmed Valley Powe			GRAND VALLEY	Grand Valley Government											
Colorado   3   PROJECT   Carad Valley Power Plant   Transferred   Grand Valley Power Plant Rehabilitation   C   S   6,800,000   S   20,0000   S   2,375,000   S   2,775,000	Colorado	3	PROJECT	Highline Canal	Transferred	Rehabilitate Aging Canal System	D	\$ 20,000,000						\$ 20,000,000	\$ 20,000,000
Colorado   3   PROJECT   Carad Valley Power Plant   Transferred   Grand Valley Power Plant Rehabilitation   C   S   6,800,000   S   20,0000   S   2,375,000   S   2,775,000			on												
Colorado   Tuntier   Colorad	Colorado	3		Grand Valley Power Plant	Transformed	Grand Valley Power Plant Rehabilitation	C	\$ 6,800,000	\$ 200,000		\$ 2437 500			\$ 100,000	\$ 2.737.500
HUNTLEY	Colorado	,	I ROJEC I	Grand vancy rower riant	Transferred			9 0,000,000	3 200,000		3 2,437,300			\$ 100,000	3 2,737,300
Refurble and plant peacetock. Repair and replace piping for emergency gate plephalic control. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test plephalic control. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs of repairs gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. High pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long test. Repair and feet test. Health in long test. Park Visitor Center and Maintenance Yards/Shops C S 2,000,000 S 1															
According to the pressure gate repair or replacement. Potential road and/or embankment maintenance and repairs in long term. Rehab inlet structures	Colorado	3	PROJECT	Drains	Transferred		E	\$ 50,000						\$ 50,000	\$ 50,000
Jackson Gulch Dam and   repair or replacement Pote   repair or replacement of the treatment of the property (Off stream Zonet   PROJECT   Earthfill)   S 3,875,000   S 3			1												
MANCOS   Reservoir (Off stream Zoned   Colorado   S   Roberto   S   S   S   S   S   S   S   S   S			1	Jackson Gulch Dam and			]			]					
Colorado   3   PROJECT   Earthfill   Transferred   And/or pipeline upstream. Rehab valves and gates.   C   S   5,000,000   S   3,875,000   S				Reservoir (Off stream Zoned											
MANCOS   Reservoir (Off stream Zoned   Transferred   Mancos State Park Visitor Center and Maintenance Yards/Shops   C   S   2,000,000   S   1,000,000   S   2,000,000   S	Colorado	3		Earthfill)	Transferred		C	\$ 5,000,000						\$ 3,875,000	\$ 3,875,000
Colorado   3   PROJECT   Earthfill   Transferred   Mancos State Park Visitor Center and Maintenance Yards/Shops   C   S   2,000,000   S   1,000,000   S   2,		<u> </u>	MANIGOG							[			1		
Dackson Gulch Dam and   Servoir (Off stream Zoned   Farthfill)   Transferred   Mancos State Park Roads and Parking Areas   C   S   1,500,000   S   750,000	Colorado	3			Transformed	Manage State Park Vicitor Center and Maintenance Vorde/Shane		\$ 2,000,000	\$ 1,000,000					\$ 1,000,000	2 000 000
MANCOS   Reservoir (Off stream Zoned   Lackson Gulch Dam and   Mancos State Park Roads and Parking Areas   C   S   1,500,000   S   750,000	Colorado	,	I KOJEC I		riansicired	istances state fair visitor center and istanticuance farus/shops		2,000,000	1,000,000	<del>                                     </del>				9 1,000,000	2,000,000
MANCOS   Reservoir (Off stream Zoned   Sackson Gulch Dam and   Mancos State Park Entrance Station and ANS Inspection   D   S   1,000,000   S   500,000   S				Reservoir (Off stream Zoned											
MANCOS   Reservoir (Off stream Zoned   PROJECT   Earthfill)   Transferred   Mancos State Park Main Campground   D   S   1,000,000   S   500,	Colorado	3	PROJECT		Transferred	Mancos State Park Roads and Parking Areas	С	\$ 1,500,000	\$ 750,000					\$ 750,000	\$ 1,500,000
Colorado   3   PROJECT   Earthfill   Transferred   Facilities   D   \$ 1,000,000   \$ 500,000   \$ 500,000   \$ 1,000,000			MANICOS			Manage State Book Entrance Station and ANS In	]			]					
Second   S	Colorade	3			Transferred		D	\$ 1,000,000	\$ 500,000					\$ 500,000	\$ 1,000,000
Colorado   3   PROJECT   Earthfill)   Transferred   Replacement   D   \$ 1,000,000   \$ 500,000   \$ 500,000   \$ 1,000,000	Loronado				- minimum du			1,000,000	200,000	† †				2 200,000	2,000,000
Section   Colorado   Jackson Gulch Dam and   MANCOS   Reservoir (Off stream Zoned Earthfill)   Transferred   Mancos State Park Main Campground   D   S   500,000   S   250,000   S   2															
MANCOS   Reservoir (Off stream Zoned   Farthfill)   Transferred   Mancos State Park Main Campground   D   S   500,000   S   25	Colorado	3	PROJECT		Transferred	Replacement	D	\$ 1,000,000	\$ 500,000					\$ 500,000	\$ 1,000,000
Colorado   3   PROJECT   Earthfill   Transferred   Mancos State Park Main Campground   D   \$   500,000   \$   250,000   \$   500			MANCOS												
Jackson Gulch Dam and MANCOS   Reservoir (Off stream Zoned   Transferr	Colorado	3			Transferred	Mancos State Park Main Campground	D	s 500.000	\$ 250.000					\$ 250,000	\$ 500,000 *
MANCOS Reservoir (Off stream Zoned Colorado 3 PROJECT Earthfill) Transferred Timber/Forestry Management, Transferred Timber/Forestry Management)" C \$ 500,000 \$ 250,000 \$ \$ 50		_				Mancos State Park Natural Resources				† 1		İ			. 223,000
Jackson Gulch Dam and MANCOS Reservoir (Off stream Zoned				Reservoir (Off stream Zoned		(Fencing & Boundary Protection, Weed Management,			1.					l .	
MANCOS Reservoir (Off stream Zoned	Colorado	3	PROJECT		Transferred	Timber/Forestry Management)"	С	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,000
			MANCOS												
	Colorado	3	PROJECT		Transferred	Mancos State Park Day Use areas and Trails	D	\$ 250.000	\$ 125,000			1		\$ 125,000	\$ 250,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Asset Management Report List of Major Rehabilitation and Replacement Activities FY 2021-2050

										Fundin	g Categories*			
									Appropriated			Non-Federal Financia	ng	1
	Congressional	Authorized		Transferred / Reserved		MR&R	Estimated Total	Reclamation	Deslamati B	Other	Power	Reserved Works	0 "	Estimated 30-Year
State	Congressional District	Authorized Project	Asset Name	Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Water Users	Operating Partners	MR&R Total
state	District	Troject	Jackson Gulch Dam and	WOLKS	Brief Description of Work Needed	Kaung	Costs	Salety	Salety	rederai	Financing	water Users	1 artifers	MK&K Total
		MANCOS	Reservoir (Off stream Zoned											
Colorado	3	PROJECT	Earthfill)	Transferred	Mancos State Park West CG	D	\$ 200,000	\$ 100,000					\$ 100,000	\$ 200,000
					Repair/replacement of concrete sections of inlet and outlet canals, and associated structures; lining of earth fill sections of									
					outlet canal. Rehab/replace approximately one mile of box									
		MANCOS	Jackson Gulch Inlet Outlet		flume on inlet canal and approximately 1,000 feet of box flume									
Colorado	3	PROJECT	Canals	Transferred	on outlet canal.	C	\$ 7,210,000	\$ 1,599,000					\$ 861,000	\$ 2,460,000
					Diversion dam has reached its design life and extensive repairs									
Colorado	3	MANCOS PROJECT	Mancos Diversion Dam	Transferred	may be required in the future to ensure reliable water delivery.  Rehab/replace river grate.	C	\$ 2,000,000						\$ 2,000,000	\$ 2,000,000
Colorado	,	MANCOS	Mancos Diversion Dam	Hallstelled	Refurbish interior and exterior, electrical, ventilation		3 2,000,000						3 2,000,000	\$ 2,000,000
Colorado	3	PROJECT	Mancos Pump House	Transferred	maintenance.	D	\$ 20,000						\$ 20,000	\$ 20,000
		PAONIA												
Colorado	3	PROJECT PAONIA	Fire Mountain Canal	Transferred	Rehabilitate Aging Canal System	D	\$ 20,000,000		-	\$20,000,000		-		\$ 20,000,000
Colorado	3	PROJECT	Fire Mountain Diversion Dam	Transferred	Rehabilitate Aging Canal Diversion Dam	D	s 5,000,000			\$ 5,000,000				s 5,000,000
							2,000,000			,,				.,,,,,,,,
		PAONIA	Paonia Dam and Reservoir		Modify existing intake structure to accommodate incoming				I			I	l	
Colorado	3	PROJECT PAONIA	(Muddy Creek Zoned Earthfill)	Transferred	sediment loading.	C	\$ 25,000,000		1	\$25,000,000		<del>                                     </del>	-	\$ 25,000,000
Colorado	3	PAONIA PROJECT	Paonia Recreation Area	Transferred	Paonia State Park, Roads and Parking Areas	С	\$ 1,500,000	\$ 750,000	I		1	ĺ	\$ 750,000	\$ 1,500,000
		PAONIA			and a state of the state		1,500,500	. ,50,000	t		l	1	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 1,500,000
Colorado	3	PROJECT	Paonia Recreation Area	Transferred	Paonia State Park, Boating Facilities - ANS	C	\$ 1,000,000	\$ 500,000					\$ 500,000	\$ 1,000,000
61.1	3	PAONIA	n : n :: 1	т с :	Paonia State Park, Water/Sewer/Electric Line Repair and	C	6 700.000	. 250					. 250 000	e 700 000
Colorado	3	PROJECT PAONIA	Paonia Recreation Area	Transferred	Replacement Paonia State Park, Natural Resources (Fencing & Boundary	С	\$ 700,000	\$ 350,000					\$ 350,000	\$ 700,000
Colorado	3	PROJECT	Paonia Recreation Area	Transferred	Protection, Weed Management, Timber/Forestry Management)	С	\$ 500,000	\$ 250,000	I			I	\$ 250,000	\$ 500,000
		PAONIA												
Colorado	3	PROJECT	Paonia Recreation Area	Transferred	Paonia State Park, Visitor Center and Maintenance Yard/Shops	D	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,000
Colorado	3	PAONIA PROJECT	Paonia Recreation Area	Transferred	Paonia State Park, Anthracite Day-Use Area	D	\$ 349,999	\$ 153,515					\$ 196,484	\$ 349,999
Colorado	,	PAONIA	r aonia Recreation Area	Hallstelled	r aoma State Faik, Anumache Day-Ose Area	Б	3 347,777	3 133,313					3 170,464	3 349,555
Colorado	3	PROJECT	Paonia Recreation Area	Transferred	Paonia State Park, Hawsapple Campground	D	\$ 200,000	\$ 100,000					\$ 100,000	\$ 200,000
		PAONIA												
Colorado	3	PROJECT PINE RIVER	Paonia Recreation Area	Transferred	Paonia State Park, Spruce Campground	D	\$ 200,000	\$ 100,000					\$ 100,000	\$ 200,000
Colorado	3	PROJECT	Firehouse	Transferred	Roofing and Siding Repairs	С	\$ 20,000						\$ 20,000	\$ 20,000
Cololudo	,	PINE RIVER	Thenouse	Transferred	Repairs and maintenance including plumbing, HVAC, electrical,		20,000						20,000	20,000
Colorado	3	PROJECT	Managers Residence	Transferred	roofing, interior, and exterior work	C	\$ 240,000						\$ 80,000	\$ 80,000
6.11	3	PINE RIVER	n: n: c	Tr. C. 1	Repairs and maintenance including plumbing, HVAC, electrical,	С							\$ 40,000	40,000
Colorado		PROJECT PINE RIVER	Pine River Garage	Transferred	roofing, interior, and exterior work  Repairs and maintenance including plumbing, HVAC, electrical,	C	\$ 40,000		-				\$ 40,000	\$ 40,000
Colorado	3	PROJECT	Pine River Shop Building	Transferred	roofing, interior, and exterior work	С	\$ 360,000						\$ 360,000	\$ 360,000
			Vallecito Dam and Reservoir											
	_	PINE RIVER	(Los Pinos River Zoned			С								
Colorado	3	PROJECT	Earthfill) Vallecito Dam and	Transferred	Vallecito Recreation Area Roads  Major rehabilitation/replacement of the spillway approach	С	\$ 10,000,000			\$ 5,000,000			\$ 5,000,000	\$ 10,000,000
		PINE RIVER	Reservoir(Los Pinos River		channel and adjacent spillway chute walls, including repairs to									
Colorado	3	PROJECT	Zoned Earthfill)	Transferred	the spillway invert.	В	\$ 3,000,000	\$ 1,125,000		\$ 225,000			\$ 900,000	\$ 2,250,000
			Vallecito Dam and											
Colorado	3	PINE RIVER PROJECT	Reservoir(Los Pinos River Zoned Earthfill)	Transferred	Vallecito Recreation Area Boating Facilities - Marina & ANS	С	\$ 2,000,000	\$ 2,000,000						\$ 2,000,000
Colorado	,	r KOJEC I	Vallecito Dam and	Hallstelled	valietto Retreation Area Boating Patrities - Marina & ANS		3 2,000,000	3 2,000,000						\$ 2,000,000
		PINE RIVER	Reservoir(Los Pinos River		Modification of spillway wall to allow maintenance vehicle									
Colorado	3	PROJECT	Zoned Earthfill)	Transferred	access into spillway.	C	\$ 2,000,000		ļ			ļ	\$ 1,150,000	\$ 1,150,000
		PINE RIVER	Vallecito Dam and Reservoir(Los Pinos River		Vallecito Recreation Area Water/Sewer/Electric Line Repair and				I		1	ĺ	1	
Colorado	3	PROJECT	Zoned Earthfill)	Transferred	Vallectio Recreation Area Water/Sewer/Electric Line Repair and Replacement	С	\$ 1,000,000	s 1,000,000	1			1		\$ 1,000,000
			Vallecito Dam and		Vallecito Lake Natural Resources		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,000						,,000
		PINE RIVER	Reservoir(Los Pinos River		(Fencing & Boundary Protection, Weed Management,	_			I			I	l	
Colorado	3	PROJECT	Zoned Earthfill) Vallecito Dam and	Transferred	Timber/Forestry Management)"	D	\$ 500,000	\$ 500,000	<del>                                     </del>		-	<del>                                     </del>	1	\$ 500,000
		PINE RIVER	Reservoir(Los Pinos River						I		1	ĺ	1	
Colorado	3	PROJECT	Zoned Earthfill)	Transferred	Vallecito Recreation Area Fishing and DU Areas	D	\$ 500,000	\$ 500,000	1			1		\$ 500,000
		SAN LUIS	,											
61.1	3	VALLEY PROJECT	DI DI IDI I		D of L of CH F	D	s 350.000		I			I		250 000
Colorado Colorado	3	PROJECT SILT PROJECT	Platoro Dam and Reservoir Davie Ditch Canal	Transferred Transferred	Recoat the guard gate filler line. Rehabilitate Aging Canal System	D D	\$ 350,000 \$ 20,000,000		<del></del>	\$20,000,000	-	<del>                                     </del>	\$ 350,000	\$ 350,000 \$ 20,000,000
Colorado	3		Rifle Gap Recreation Area		Rifle Gap State Park, Boating Facilities - ANS	C	\$ 1,200,000	\$ 600,000	1	\$20,000,000			\$ 600,000	\$ 1,200,000
					Rifle Gap State Park, Water/Sewer/Electric Line Repair and								,,,,,	
Colorado	3	SILT PROJECT	Rifle Gap Recreation Area	Transferred	Replacement.	D	\$ 1,719,000	\$ 600,000	<b>.</b>			<b></b>	\$ 600,000	\$ 1,200,000
	3	SILT PROJECT	Rifle Gap Recreation Area	Transferred	Rifle Gap State Park Natural Resources (Fencing & Boundary Protection, Weed Management, Timber/Forestry Management)	C	\$ 1,032,000	\$ 500,000	I		1	ĺ	\$ 500,000	\$ 1,000,000
Colorado		DILL PROJECT	Kine Gap Recreation Area	ransierred	Rifle Gap State Park, Visitor Center and Maintenance	·	a 1,032,000	\$ 500,000	<del>                                     </del>			<del>                                     </del>	o 500,000	\$ 1,000,000
Colorado	3													
Colorado	3	SILT PROJECT	Rifle Gap Recreation Area	Transferred	Yards/Shops	D	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,000
	,	SILT PROJECT	Rifle Gap Recreation Area Rifle Gap Recreation Area Rifle Gap Recreation Area	Transferred		D C	\$ 500,000 \$ 460,000 \$ 300,000	\$ 250,000 \$ 230,000 \$ 150,000					\$ 250,000 \$ 230,000 \$ 150,000	\$ 500,000 \$ 460,000 \$ 300,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			
		1		I.m. a 14	T .	1 man		D 1 6	Appropriated			Non-Federal Financia	ıg	1
				Transferred /		MR&R		Reclamation			_			
	Congressional	Authorized		Reserved		Categorization	Estimated Total	Excluding Dam		Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
Colorado	3	SILT PROJECT	Rifle Gap Recreation Area	Transferred	Road Reconstruction at Rifle Gap State Park	C	\$ 275,000	\$ 275,000						\$ 275,000 *
Colorado	3	SILT PROJECT	Rifle Gap Recreation Area	Transferred	Rifle Gap State Park, Cedar Campground	D	\$ 200,000	\$ 100,000					\$ 100,000	\$ 200,000 *
Colorado	3	SILT PROJECT	Rifle Gap Recreation Area	Transferred	Rifle Gap State Park, Cottonwood Campground	D	\$ 200,000	\$ 100,000					\$ 100,000	\$ 200,000 *
Colorado	3	SILT PROJECT	Rifle Gap Recreation Area	Transferred		D	\$ 200,000	\$ 100,000					\$ 100,000	\$ 200,000 *
Colorado	3	SILT PROJECT	Rifle Gap Recreation Area	Transferred	Rifle Gap State Park Pinyon Campground	D	\$ 100,000	\$ 50,000					\$ 50,000	\$ 100,000 *
Colorado	3	SILT PROJECT			Rifle Gap State Park, Christo Day-Use Area		S 100,000				\$ 50,000		50,000	\$ 100,000 *
Colorado	3	SILT PROJECT	******			D	\$ 20,000,000	\$ 50,000	<u> </u>	\$20,000,000	\$ 50,000			\$ 20,000,000 *
Colorado	3		Silt Pump Canal	Transferred	Rehabilitate Aging Canal System	D	3 20,000,000			\$20,000,000				\$ 20,000,000
		SMITH FORK												
Colorado	3	PROJECT	Aspen Canal	Transferred	Rehabilitate Aging Canal System	D	\$ 20,000,000			\$20,000,000				\$ 20,000,000 *
		SMITH FORK												
Colorado	3	PROJECT	Clipper Canal	Transferred	Rehabilitate Aging Canal System	D	\$ 20,000,000			\$20,000,000				\$ 20,000,000 *
		SMITH FORK	Crawford Dam and Reservoir		Add Low Flow Bypass to Crawford Dam Outlet Works (Aspen									
Colorado	3	PROJECT	(Iron Creek Zoned Earthfill)	Transferred	and Iron Creek).	C	S 500,000			\$ 500,000				\$ 500,000 *
Colorado		SMITH FORK	(	Transferred			500,000		†	y 200,000				300,000
Colorado	2	PROJECT	Crawford Recreation Area	Transferred	Interior park roads repayement	C	\$ 2,683,546	\$ 1,341,773					\$ 1,341,773	\$ 2,683,546 *
Colorado	,	I KOJEC I	Clawfold Recreation Area	Hansiened	interior park roads repavement		3 2,003,340	3 1,341,773					\$ 1,341,773	3 2,083,340
		SMITH FORK			Crawford State Park Natural Resources (Fencing and Boundary									
Colorado	3	PROJECT	Crawford Recreation Area	Transferred	Protection, Weed Management, Timber/Forestry Management)	C	\$ 1,000,000	\$ 500,000					\$ 500,000	\$ 1,000,000 *
		SMITH FORK												
Colorado	3	PROJECT	Crawford Recreation Area	Transferred	Crawford, Boating Facilities (2 Boat Ramps) - ANS	C	S 1,000,000	\$ 500,000					\$ 500,000	\$ 1,000,000 *
	-	SMITH FORK					-,,,,,,,,	,	†				,	-,,,,,,,,
Colorado	3	PROJECT	Crawford Recreation Area	Transferred	Crawford, Visitor Center and Maintenance Yards/Shops	С	\$ 1,000,000	\$ 500,000			1		\$ 500,000	\$ 1,000,000 *
Colorado	3		Ciawioiu recreation Area	ransterred	Crawrord, visitor Center and wraintenance Tards/Snops	, c	9 1,000,000	ψ 300,000			<b> </b>		φ 300,000	φ 1,000,000 *
L		SMITH FORK	G 6 1D : :	l	a side Fig. :						1			
Colorado	3	PROJECT	Crawford Recreation Area	Transferred	Crawford, Clear Fork Campground	D	\$ 1,500,000	\$ 379,500			ļ		\$ 379,500	\$ 759,000 *
	l	SMITH FORK	1					I			l		l	
Colorado	3	PROJECT	Crawford Recreation Area	Transferred	Crawford Water/Sewer/Electric Line Repair and Replacement	C	\$ 787,000	\$ 293,500			1		\$ 293,500	\$ 587,000 *
		SMITH FORK			· · ·									
Colorado	3	PROJECT	Crawford Recreation Area	Transferred	Crawford Iron Creek Campground	D	\$ 250,000	\$ 125,000			l		s 125,000	\$ 250,000 *
Colorado	,	SMITH FORK	Clawfold Recreation Area	Hansterred	Clawford from Creek Campground	ь	3 230,000	3 123,000	-				\$ 125,000	3 230,000
					a a 131 1 m m vi i									
Colorado	3	PROJECT	Crawford Recreation Area	Transferred	Crawford North Shore Day-Use Area	D	\$ 200,000	\$ 100,000					\$ 100,000	\$ 200,000 *
		SMITH FORK												
Colorado	3	PROJECT	Crawford Recreation Area	Transferred	Crawford, Peninsula Day-Use Area	D	\$ 200,000	\$ 50,000					\$ 50,000	\$ 100,000 *
		SMITH FORK												
Colorado	3	PROJECT	Crawford Recreation Area	Transferred	Crawford, West Shore Day-Use Area	D	\$ 100,000	\$ 50,000					\$ 50,000	\$ 100,000 *
	-	SMITH FORK						,	†				,,,,,,	,
Colorado	,	PROJECT	Smith Fork District Office	Transferred	Rehabilitate Office and Shop Building	В	\$ 250,000						\$ 250,000	\$ 250,000 *
Colorado	,	SMITH FORK	Similar Fork District Office	Hansiened	Renabilitate Office and Shop Banding	ь	3 230,000		-				\$ 250,000	3 250,000
Colorado	3	PROJECT	Smith Fork Diversion Dam	Transferred	Rehabilitate Aging Canal Diversion Dam	D	\$ 5,000,000			\$ 5,000,000				\$ 5,000,000 *
		SMITH FORK												
Colorado	3	PROJECT	Smith Fork Feeder Canal	Transferred	Rehabilitate Aging Canal System	D	\$ 20,000,000			\$20,000,000				\$ 20,000,000 *
					Remove and replace approximately 150 cubic yards of concrete,									
					when required excavate, backfill, and compact approximately									
					1,200 cubic yards of earthen materials, install new energy									
		UCRSP-SAN			absorbing materials on the face of the energy dissipator, replace									
	_	JUAN-CHAMA			downstream erosion controls, and repair/replace any damage	_								
Colorado	3	PARTC PRJ	Azotea Tunnel	Reserved	safety railings.	C	\$ 769,400					\$ 248,550		\$ 248,550 *
		UNCOMPAHGRE												
Colorado	3	PROJECT	East Canal Diversion Dam	Transferred	Rehabilitate Aging Canal Diversion Dam	D	\$ 5,000,000						\$ 5,000,000	\$ 5,000,000 *
		UNCOMPAHGRE	E											
Colorado	3	PROJECT	Garnet Canal	Transferred	Rehabilitate Aging Canal System	D	S 20,000,000						\$ 20,000,000	\$ 20,000,000 *
		UNCOMPAHGRE					,,		†					
Colorado	3	PROJECT	Garnet Diversion Dam	Transferred	Rehabilitate Aging Canal Diversion Dam	D	\$ 5,000,000	I			l		\$ 5,000,000	\$ 5,000,000 *
Colorado	3			rransterred		и	9 2,000,000	<del>                                     </del>			<b> </b>		000,000, و	υ 2,000,000 °
		UNCOMPAHGRE			Replace existing Timber-crib weir structure with a concrete	C		I			l			l
Colorado	3	PROJECT	Gunnison Diversion Dam	Transferred	diversion structure with new radial gates and structure.	С	\$ 16,500,000	<u> </u>			ļ		\$ 16,500,000	\$ 16,500,000 *
l	l	UNCOMPAHGRE		1		1		1			1		1	]
Colorado	3	PROJECT	Ironstone Canal	Transferred	Rehabilitate Aging Canal System	D	\$ 20,000,000	I			l		\$ 20,000,000	\$ 20,000,000 *
		UNCOMPAHGRE												
Colorado	3	PROJECT	Ironstone Diversion Dam	Transferred	Rehabilitate Aging Canal Diversion Dam	D	\$ 5,000,000	I			l		\$ 5,000,000	\$ 5,000,000 *
		UNCOMPAHGRE					2,22,300	İ	1				.,,	-,,
Colorado	2	PROJECT	Loutsenhizer Canal	Transferred	Rehabilitate Aging Canal System	D	\$ 20,000,000	1			I		\$ 20,000,000	\$ 20,000,000 *
Colorado	,			transferred	remaninate aging canai system	U	\$ 20,000,000	ļ	-		<b> </b>			p 20,000,000 *
		UNCOMPAHGRE		l				1			1			
Colorado	3	PROJECT	Loutzenhizer Diversion Dam	Transferred	Rehabilitate Aging Canal Diversion Dam	D	\$ 5,000,000	ļ			l		\$ 5,000,000	\$ 5,000,000 *
	l	UNCOMPAHGRE						I			l		l	
Colorado	3	PROJECT	Montrose and Delta Canal	Transferred	Rehabilitate Aging Canal System	D	\$ 20,000,000	<u> </u>	<u> </u>		L	<u></u>	\$ 20,000,000	\$ 20,000,000 *
		UNCOMPAHGRE	E Montrose and Delta Diversion											
Colorado	3	PROJECT	Dam	Transferred	Rehabilitate Aging Canal Diversion Dam	D	\$ 5,000,000	I			l		\$ 5,000,000	\$ 5,000,000 *
	t i	UNCOMPAHGRE				<u> </u>	2,000,000	t	<del>                                     </del>		<b> </b>			. 2,000,000
Colorado	2	PROJECT	Selig Canal	Transferred	Rehabilitate Aging Canal System	D	s 20,000,000	I			l		\$ 20,000,000	\$ 20,000,000 *
Colorado	3			ransterred	remanimate Aging Canar System	и	o 20,000,000	<del>                                     </del>			<b> </b>		φ <u>∠υ,υυυ,υυυ</u>	Ψ ΔU,UUU,UUU *
		UNCOMPAHGRE		l				1			1			
Colorado	3	PROJECT	Selig Diversion Dam	Transferred	Rehabilitate Aging Canal Diversion Dam	D	\$ 5,000,000						\$ 5,000,000	\$ 5,000,000 *
1	1	UNCOMPAHGRE						1			1		1	
Colorado	3	PROJECT	Uncompangre South Canal	Transferred	Rehabilitate Aging Canal System	D	\$ 20,000,000	1			1		\$ 20,000,000	\$ 20,000,000 *
		COLORADO-BIG												
l	l	THOMPSON	ESTES POWERPLANT,					I			l		l	
Colorado	4	PROJECT	PENSTOCKS	Reserved	Unit vibration monitoring addition	A	\$ 1,230,000	I			\$ 795,000		l	\$ 795,000
Colorado	4	1 KOJEC I	1 LIVOTOCKO	reserved		A	9 1,230,000	<del>                                     </del>			000,000 پ		<b> </b>	/95,000
l	l		.1		Project scope include purchase of two new temporary trailers,			I			l		l	
1	l	COLORADO-BIG	i		demolition and removal of dilapidated structures as well as			I			l		l	
I	l	THOMPSON	1	1	design and construction of a new warehouse and office space	1		1			1		1	
Colorado	4	PROJECT	Flatiron Office (modular)	Reserved	near Flatiron Powerplant.	D	\$ 5,500,000	1			\$ 5,100,000		1	\$ 5,100,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	g Categories*			]
		1	1	Im a 1/	T	Lanan	1	D 1	Appropriated			Non-Federal Financia	ng	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		_												
		COLORADO-BIG	TI A TITLE ON THE STATE OF THE											
Colorado	4	THOMPSON PROJECT	FLATIRON POWERPLANT, PENSTOCKS (Units 1, 2)	Reserved	Flatiron Bulkhead Gate Refurbishment	Α.	\$ 665,000				\$ 8,500			\$ 8,500
Colorado	7	I KOJEC I	TENSTOCKS (Ollies 1, 2)	Reserved	ration Burkied Gate Returbisiment		3 005,000				5,500			5 0,500
		COLORADO-BIG												
Colorado	4	THOMPSON PROJECT	MARYS LAKE POWERPLANT	Reserved	Replace turbine runner and wear rings	A	\$ 5,469,000				\$ 4,531,900			\$ 4,531,900
Colorado	4	FROJECT	FOWERFLANT	Reserved	New asphalt in Estes Park Campground at Mary's Lake and the	A	3 3,409,000				3 4,331,900			3 4,331,700
		COLORADO-BIG			Estes Park Campground at East Portal as well as the day use									
		THOMPSON	MARYS LAKE		parking areas that are adjacent to Mary's Lake and the East	_								
Colorado	4	PROJECT	RECREATION FACILITIES BONNY DAM, RESERVOIR	Transferred	Portal Reservoir.	D	\$ 2,405,829		-	\$ 2,405,829				\$ 2,405,829
		P-S MBP, ARMEI	(South Fork Republican River,											
Colorado	4	UNIT	MHE)	Reserved	Dam Crest Guardrail Replacement	C	\$ 2,000,000	\$ 2,000,000						\$ 2,000,000
		P-S MBP, ARMEI	BONNY DAM, RESERVOIR											
Colorado	4	UNIT	(South Fork Republican River, MHF)	Reserved	Hale Ditch Pipe Removal	E	\$ 500,000	\$ 500,000						\$ 500,000
			BONNY DAM, RESERVOIR											
		P-S MBP, ARMEI												
Colorado	4	UNIT FRYINGPAN-	MHE) MT ELBERT FOREBAY	Reserved	Concrete roof repairs.	С	\$ 50,000	\$ 50,000						\$ 50,000
		ARKANSAS	DAM, RESERVOIR (Off											
Colorado	5	PROJECT	stream ZE)	Reserved	Install a wireless remote operating system	D	\$ 90,000	\$ 90,000						\$ 90,000
		FRYINGPAN-	MT ELBERT PUMPED											
Colorado	5	ARKANSAS PROJECT	STORAGE POWERPLANT (2	Reserved	Units 1 & 2 rehabilitation	A	\$ 19,417,000		I	1	\$ 5.115.200		1	\$ 5,115,200
Colorado		FRYINGPAN-	MT ELBERT PUMPED	reserved	omo i & 2 ionaomianon		5 17,417,000				J,11J,200			5,115,200
		ARKANSAS	STORAGE POWERPLANT (2											
Colorado	5	PROJECT	units)	Reserved	Mt. Elbert Water Treatment System Replacement	C	\$ 349,000				\$ 5,700			\$ 5,700
		LEADVILLE MINE												
		DRAINAGE	LEADVILLE TREATMENT		Construction of Mine Drainage Water Treatment Facility and									
Colorado	5	TUNNEL	PLANT	Reserved	Chemical Storage Building	A	\$ 94,000,000	\$ 61,100,000						\$ 61,100,000
71.1		DOIGE BROJECT	BC PARK 5 STALL MAINT /	ъ .	N. C. I. I	E	. 20,000						\$ 30,000	20,000
Idaho	- 1	BOISE PROJECT	SHOP / OFFICE BCD PUMP HOUSE (for	Reserved	New roof and enclose structure.	E	\$ 30,000						\$ 30,000	\$ 30,000
Idaho	1	BOISE PROJECT	BCD and Wildrose)	Reserved	Replace roof.	E	\$ 8,000						\$ 8,000	\$ 8,000
Idaho	1	BOISE PROJECT		Reserved	New roof for building.	E	\$ 50,000						\$ 50,000	\$ 50,000
71.1		DOIGE BROJECT	BLACK CANYON DAM	ъ .	Black Canyon Dam downstream training wall		6 2.005.152	6 160,000			6 1015000	6 070 000		0.002.000
Idaho	- 1	BOISE PROJECT	AND RESERVOIR	Reserved	undercutting/erosion repairs. Black Canyon Diversion Dam - Replace the guides for all three	D	\$ 2,095,152	\$ 169,000			\$ 1,015,000	\$ 878,000		\$ 2,062,000
			BLACK CANYON DAM		drum gate intake gates. Clean and recoat the drum gate intake									
Idaho	1	BOISE PROJECT		Reserved	gate leaves and stems.	C	\$ 156,254	\$ 14,000			\$ 73,000	\$ 68,000		\$ 155,000
Idaho	1	BOISE PROJECT	BLACK CANYON DAM AND RESERVOIR	Reserved	Downstream Left Training Wall Repair	C	\$ 131,152	\$ 35,000			\$ 21,000	\$ 42,000		\$ 98,000
Idano	,	BOISE I ROJECT	AND RESERVOIR	Reserved	Black Canyon Dam - Rehabilitate the spillway drum gate		3 131,132	3 33,000			3 21,000	9 42,000		3 70,000
			BLACK CANYON DAM		balance valve pilot valves to ensure trouble-free drum gate									
Idaho	1	BOISE PROJECT	AND RESERVOIR	Reserved	operation.  15BID001: C-LINE PUMPING PLANT ACCESS ROAD	D	\$ 3,000	\$ 400			\$ 2,200	\$ 400		\$ 3,000
			BLACK CANYON ID - C		BRIDGE - Repair erosion damage, rehabilitate deck, install									
Idaho	1	BOISE PROJECT	LINE PUMPING PLANT	Transferred	safety barriers.	D	\$ 40,000						\$ 40,000	\$ 40,000
Idaho	,	BOISE PROJECT	BLACK CANYON ID - CANAL SYSTEM PAYETTE	Transferred	Lining of approximately 24 miles of the Black Canyon Main Canal with concrete and Huesker Lining.	С	\$ 125,000,000		1				\$ 125,000,000	\$ 125,000,000
iudiio	1	DOISE FROJECT	BLACK CANYON ID -	riansterred	Piping and instillation of automation to replace existing open		9 123,000,000	1	<del>                                     </del>	<b> </b>			y 123,000,000	φ 123,000,000 ·
			LATERAL SYSTEM		lateral ditches. This will increase safety to the surrounding				1					
Idaho	1	BOISE PROJECT		Transferred	communities along with increase water deliveries.	C	\$ 2,000,000	ļ					\$ 2,000,000	\$ 2,000,000
Idaho	1	BOISE PROJECT	BLACK CANYON ID - NOTUS CANAL SYSTEM	Transferred	Lining 11 miles of the Notus Canal with concrete and Huesker	D	\$ 58,660,000		I	1			\$ 58.660.000	\$ 58,660,000
audio			BLACK CANYON ID -	ramsterred	Piping of existing open ditch laterals to increase safety for the	_	2 30,000,000		<u> </u>				2 33,000,000	
Idaho	1	BOISE PROJECT	NOTUS LATERAL SYSTEM	Transferred	surrounding public and improve water delivery efficiency.	C	\$ 2,000,000				ļ		\$ 2,000,000	\$ 2,000,000
			BLACK CANYON ID - WILLOW CREEK AND		Englace numbing plant in page				1					
Idaho	1	BOISE PROJECT		Transferred	Enclose pumping plant in permanent structure. This will protect motors from elements, prolonging motor life.	E	\$ 10,000		1				\$ 10,000	\$ 10,000
	<u> </u>		BLACK CANYON IRR DIST		, prompting motor mot				1					
Idaho	1	BOISE PROJECT	/ MAINT SHOP 4	Transferred	New roof.	E	\$ 25,000		ļ				\$ 25,000	\$ 25,000
Idaho	,	BOISE PROJECT	BLACK CANYON IRR DIST / OFFICE 1	Transferred	Replace all windows with new energy star windows along with replacing all lights with LED bulbs.	E	\$ 20,000		1				\$ 20,000	\$ 20,000
Idano	1	BOISE PROJECT	/ OFFICE I	1 ransierred	Black Canyon Park Recreation Complex (Wildrose Park) -	E	20,000		<del>                                     </del>		<del>                                     </del>	<del> </del>	a 20,000	\$ 20,000 Y
Idaho	1	BOISE PROJECT	Black Canyon Parks RW REC	Reserved	Repair large crack in asphalt on roadway.	С	\$ 500	\$ 500	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	\$ 500
			BLACK CANYON						I	1			1	
Idaho	1	BOISE PROJECT		Reserved	Third Unit Addition	D	\$ 56,475,456		I	1	\$ 49,254,074		1	\$ 49,254,074
											.,.,,,,,,,			.,.,,.,,
			DI ACIZ CANTIZON						I	1			1	[
Idaho	1	BOISE PROJECT	BLACK CANYON POWERPLANT	Reserved	Black Canyon Switchyard 69 KV	A	\$ 13,501,980		I		\$ 12,782,443		Ì	\$ 12,782,443
ruariU	1	POINT I KONECT	A O A EM EAST	reserveu	Dates Carlyon Dwitchyard 07 ICV	Λ	U.,JU1,980	I		I	w 12,/02, <del>44</del> 3	ı	l .	Ψ 12,702, <del>44</del> 3

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			]
				Transferred /	T	MR&R	I	Reclamation	Appropriated			Non-Federal Financia	ng .	T
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		,			•									
			BLACK CANYON											
Idaho	1	BOISE PROJECT		Reserved	Black Canyon Powerplant - Black Canyon Trash Rake System	С	\$ 6,941,015				\$ 5,801,812	\$ 580,180		\$ 6,381,992
			BLACK CANYON											
Idaho	1	BOISE PROJECT		Reserved	Unit 1 and 2 Life Safety Modifications	A	\$ 7,478,212				\$ 6,103,553			\$ 6,103,553
			BLACK CANYON		,									
Idaho	1	BOISE PROJECT	POWERPLANT BLACK CANYON	Reserved	Black Canyon Dam Excitation system replacement	D	\$ 4,529,259				\$ 4,529,259			\$ 4,529,259
Idaho	1	BOISE PROJECT		Reserved	Governor Replacement U1 and U2	С	\$ 3,321,609				\$ 3,321,609			\$ 3,321,609
					1									
			BLACK CANYON											
Idaho	1	BOISE PROJECT		Reserved	Station Service Arc Flash Modifications	A	\$ 2,410,333				\$ 1,782,294			\$ 1,782,294
			BLACK CANYON		Black Canyon Powerplant - Penstock Flow Meters and console									
Idaho	1	BOISE PROJECT	POWERPLANT BLACK CANYON	Reserved	installation	D	\$ 199,005				\$ 199,005			\$ 199,005
Idaho	1	BOISE PROJECT		Reserved	Unit 2 Cooling Water Piping	С	\$ 136,476				\$ 136,476			\$ 136,476
			BLACK CANYON											
Idaho	1	BOISE PROJECT	POWERPLANT BLACK CANYON	Reserved	MSFO Power Plants Noise Survey & Mit. Plan	D	\$ 170,298				\$ 59,181			\$ 59,181
Idaho	1	BOISE PROJECT		Reserved	Thrust Bearing Cooling Coils	С	\$ 57,000	1			\$ 57,000			\$ 57,000
			BLACK CANYON											
Idaho	1	BOISE PROJECT	POWERPLANT C LINE TRANSMISSION	Reserved	2901 - MSFO Digital Radio Conversion	D	\$ 1,002,800	\$ 96,500			\$ 832,600	\$ 43,700		\$ 972,800
Idaho	1	BOISE PROJECT	LINE TRANSMISSION LINE PAYETTE DIVISION	Reserved	Line Pole Replacement	A	\$ 750,000	1			\$ 750,000			\$ 750,000
			CASCADE DAM AND											
Idaho	1	BOISE PROJECT		Reserved	Repair/Resurface Crest Roadway.	С	\$ 1,225,000			\$ 1,225,000				\$ 1,225,000
Idaho	1	BOISE PROJECT	CASCADE DAM AND RESERVOIR	Reserved	15CAS002: CASCADE DAM-LAKE WAY ROAD BRIDGE - Repair abutment footing erosion stabilization.	D	\$ 15,000	\$ 15,000						\$ 15,000
Idano		BOISE I ROJECT	RESERVOIR	Reserved	15CAS002: CASCADE DAM-LAKE WAY ROAD BRIDGE -	В	3 15,000	3 15,000						5 15,000
			CASCADE DAM AND		Adjust the downstream left object marker so it is vertical and									
Idaho	1	BOISE PROJECT	RESERVOIR CROWN POINT	Reserved	perpendicular to the roadway. Snake River Area Office Microwave Communications System	D	\$ 500	\$ 500						\$ 500
Idaho	1	BOISE PROJECT		Reserved	Battery Replacement	С	\$ 389,000	\$ 30,000			\$ 335,000	\$ 24,000		\$ 389,000
			DEADWOOD DAM AND											
Idaho	1	BOISE PROJECT	RESERVOIR DEADWOOD DAM AND	Reserved	Deadwood Dam Diesel Generator installation  15DWD001: DEADWOOD DAM GATEHOUSE ACCESS	С	\$ 119,000	\$ 30,112			\$ 75,224	\$ 9,664		\$ 115,000
Idaho	1	BOISE PROJECT		Reserved	BRIDGE - Replace deck/curbs, install safety barriers	D	\$ 65,000	\$ 65,000						\$ 65,000
			HEADQUARTERS AND		Replace all windows with new energy star windows along with									
Idaho Idaho	1	BOISE PROJECT	SHOP - Cascade Lake Cascade State Park REC	Reserved	replacing all lights with LED bulbs. Lake Cascade T28 O&M grant	E D	\$ 20,000 \$ 1,947,794	\$ 400,906					\$ 20,000 \$ 400,906	\$ 20,000 \$ 801,812
idano	1	BOISE PROJECT	Lake Cascade State Park REC	Transferred	A2 Cascade Golf Course Bank Stabilization - AP 3079 Award a	Б	3 1,947,794	\$ 400,906					\$ 400,906	\$ 601,612
					new grant to the City of Cascade to oversee installation of a new									
Idaho Idaho	1	BOISE PROJECT	Lake Cascade State Park REC Lake Cascade State Park REC	Transferred	irrigation system for the Cascade Golf Course.  Accessible Fishing Piers at Lake Cascade State Park	B D	\$ 500,000 \$ 864,000	\$ 200,000					\$ 200,000 \$ 116,000	\$ 400,000 \$ 116,000
Idano	1	BOISE PROJECT	PUMP HOUSE -Deadwood	Transferred	Accessible Fishing Fiers at Lake Cascade State Fark	D	\$ 864,000						\$ 116,000	\$ 116,000
Idaho	1	BOISE PROJECT	Dam	Reserved	Replace pump house.	E	\$ 15,000						\$ 15,000	\$ 15,000
		BOISE PROJECT,												
Idaho	1	ARROWROCK DIVISION	SHOP BUILDING - LAKE LOWELL	Transferred	Replace shop with one that satisfies modern day building codes.	E	s 40,000						s 40.000	\$ 40,000
		BOISE PROJECT,	BOISE PROJECT BOARD OF											,,
14-1		ARROWROCK	CONTROL - BOISE RIVER DIVERSION DAM	T C .	Daira Dissanias DD Daaf Daala		e	1			e 400.500			¢ 400.500
Idaho	1	DIVISION LEWISTON	DIVERSION DAM	1 ransterred	Boise Diversion PP Roof Replacement	D	\$ 541,584	1			\$ 488,500			\$ 488,500
		ORCHARDS			SOLIDER'S MEADOW (CAMPGROUND) - Repair, replace, or			1						
Idaho	1	PROJECT	Soldiers Meadow REC	Transferred	remove damaged picnic facilities.	D	\$ 5,000	\$ 5,000	ļ					\$ 5,000
			230 COLLINS RD STORAGE AND DIVE LOCKER											
Idaho	2	BOISE PROJECT	BUILDING	Reserved	New roof for building.	E	\$ 50,000						\$ 50,000	\$ 50,000
		BOISE PROJECT,			D 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2			]						
Idaho	,	ARROWROCK DIVISION	OFFICE AND STORAGE BLDG	Transferred	Replace and reinstall new energy efficient windows and LED lights.	E	s 15.000	1					\$ 15,000	\$ 15,000
Junio				- Tumbretted	1.00		- 15,000						15,000	2 15,000
			4004 GEKLER LANE BPBOO					1						
Idaho	2.	ARROWROCK DIVISION	WOODSHOP/METERSHOP - BOC	Transferred	New roof for building.	E	\$ 50,000	1					\$ 50,000	\$ 50,000
- Lumio		BOISE PROJECT,		- Tumbretted			20,000						2 20,000	2 25,000
		ARROWROCK	ANDERSON RANCH DAM											
Idaho	2	DIVISION BOISE PROJECT,	AND RESERVOIR	Reserved	Repair Asphalt Roadway	С	\$ 639,695		1	\$ 639,695				\$ 639,695
		ARROWROCK	ANDERSON RANCH DAM					1						
Idaho	2	DIVISION	AND RESERVOIR	Reserved	Anderson Dam Radial Gate Coating Rehab-Seal Replacement	D	\$ 465,000	\$ 170,000			\$ 165,000	\$ 130,000		\$ 465,000
		BOISE PROJECT, ARROWROCK	ANDERSON RANCH DAM		Anderson Ranch Dam - Blast, repair, and recoat the portions of the outlet works fixed-wheel gate structure, alongside of the									
Idaho	2	DIVISION	AND RESERVOIR		fixed-wheel gate hoist.	D	\$ 100,000	\$ 36,400			\$ 35,500	\$ 28,100		\$ 100,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

## **Public Report** Asset Management Report List of Major Rehabilitation and Replacement Activities FY 2021-2050 Funding Categories<sup>3</sup> Appropriated on-Federal Financin Transferred MR&R ategorizatio Authorized Reserved Estimated Total Excluding Dam clamation Da Other Power Reserved Works Operating Estimated 30-Year District Project Asset Name Works Brief Description of Work Needed Rating Costs Safety Safety Federal Financing Water Users MR&R Total ROISE PROJECT ANDERSON RANCH DAM ARROWROCK inderson Ranch Dam - Repair the spillway radial gate wall ND RESERVOIR 50.000 17.750 Idaho DIVISION plate coating and grout Anderson Ranch Dam - Repair the metal platform and adjoining 50.000 ARROWROCK ANDERSON RANCH DAM tairs inside of the incline fixed-wheel gate structure, alongside AND RESERVOIR of the fixed-wheel gate hoist. 3 000 3,000 Idaho BOISE PROJEC Anderson Ranch Dam - Repair the damaged rock-fall fencing NDERSON RANCH DAM ocated above the left spillway chute wall and remove all the IVISION AND RESERVOIR 2,000 2,000 ocks from the spillway chut BOISE PROJEC ARROWROCK ANDERSON RANCH Idaho NOISIVIC POWERPLANT Jnit 1 and 2 Generator Rewind 14,863,217 14,863,217 14,863,217 ROISE PROJEC ARROWROCK ANDERSON RANCH Idaho DIVISION POWERPLANT Turbine Runner Replacement 9.331.674 9.155.160 9.155.160 BOISE PROJECT ARROWROCK ANDERSON RANCH DIVISION POWERPLANT 4,223,116 4,223,116 Idaho D Anderson Ranch Generating Unit Switchgear Replacement BOISE PROJECT ARROWROCK 1,557,20: 1,557,205 Idaho Governor Replacement G1 & G2 (Control Upgrade) BOISE PROJEC ANDERSON RANC ARROWROCK SUBSTATION AND DIVISION SWITCHYARD Transformer Conservator Bladder Replacement 181,000 BOISE PROJECT ARROWROCK DAM AND ARROWROCK Idaho DIVISION RESERVOIR Arrowrock Bulkhead Gate Rail Replacement 446.061 200.872 175.724 376.596 BOISE PROJEC ARROWROCK ARROWROCK DAM AND Idaho RESERVOIR 103,300 55,000 48,300 103,300 DIVISION rrowrock Sluice Gate Decommissioning BOISE PROJEC Arrowrock Dam - Replace the rubber seals between the concr ARROWROCK DAM AND nd the perimeter of the steel outlet pipes where they exit the DIVISION 100,000 100,000 Idaho dam, just upstream from the clamshell gates BOISE PROJEC owrock Dam - Rehabilitate the drum gate float chamber ARROWROCK ARROWROCK DAM AND Idaho DIVISION RESERVOIR 12,000 12,000 drain vales and gears. BOISE PROJEC BOISE PROJECT BOARD ining of New York Canal with Huesker liner for approximate ARROWROCK CONTROL - CANAL Idaho DIVISION SYSTEM ARROWROCK 30 miles between the Boise Diversion Dam and Lake Lowell. 158,400,000 158 400 000 158,400,000 BOISE PROJECT BOISE PROJECT BOARD iping and automation of medium sized laterals to increase ARROWROCK CONTROL - LATERAL 2,000,000 Idaho DIVISION SYSTEM ARROWROCK efficiency and provide safety to the surrounding public

5,000

15,000

4,867,000

6,973,036

499.520

150.000

100,000

3,646,000

397 43

100,000

15,000

1,416,000

381.540

146.630

37.800

27,800

200,000

30,000

30,000

200,000

367,430

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DIVPP Unit 1-3 PLC/GOV Replacement

arking space at accessible RV camp site

ook between 15" and 48" at CXTs 1-4

ittle Wood River Recreation Sites -At South Campground ccess route Install 60" wide hardened surface with no more

han 5% slope and 2% cross slope from CXT restroom to

LITTLE WOOD HIGH FIVE RECREATION SITES - Adjust

loor to 5lbs of force; install accessible privacy latch; lower coa

LITTLE WOOD HIGH FIVE RECREATION SITES - Install an accessible parking spaces and striping accessible parking

nstall firm and stable surface to information kiosk and water

ource; and install level pad around water hydrant.

hydraulic oil is not impacting the environment.

American Falls Spillway Concrete Repairs

merican Falls Dam Outlet Conduit Coating

AMF Guard Gate Frame Inspection & Repair

Bulkhead Gate Support Painting

nstallation of restroom facilities

AMF West Boat Ramp T28 O&M

American Falls Dam PP Fixed Wheeled Gates Operators vestigate and determine a repair method for the drifting of the owerplant penstock fixed wheel gates operators. Ensure that

Analyze and rehabilitate the gate arm bracing and trunnion

eplacing boat ramp and realigning and paving road network

aving road and parking area, installing accessible trail and

110.000

5,000

15,000

4,867,000

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72,200

										1	Fundin	g Categories*	Non-Federal Financin		
				Transferred /		MR&R			Reclamation	Appropriated				g	
State	Congressional District	Authorized	Asset Name	Reserved Works	Dei-f Dessistion of Words Norded	Categorization Rating		ted Total osts	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	Project MINIDOKA	American Falls Willow Bay	WOFKS	Brief Description of Work Needed Resurfacing of transportation network, construct new parking				Salety	Salety		rmancing	water Users	rarmers	
Idaho	2	PROJECT MINIDOKA	REC	Transferred	areas and hiking trails	С	S	1,810,000			\$ 1,810,000				\$ 1,810,000
Idaho	2	PROJECT	HYDROMET SYSTEM	Reserved	Linderman Dam Restoration (Teton Canyon Recovery Project)	A	s	1,443,443	\$ 771,400						\$ 771,400
Idaho	2	MINIDOKA PROJECT	Minidoka Dam and Spillway	Reserved	Minidoka Project Accessible Facilities	F	s	1,433,738	\$ 360,000						\$ 360,000
	-	MINIDOKA						, ,	300,000						
Idaho	2	PROJECT MINIDOKA	Minidoka Powerplant	Reserved	Unit 7 Modernization	D	S	9,252,497				\$ 9,102,743			\$ 9,102,743
Idaho	2	PROJECT	Minidoka Powerplant	Reserved	Building Structural Integrity Analysis and Repairs	С	S	4,002,474				\$ 3,892,039			\$ 3,892,039
Idaho	2	MINIDOKA PROJECT	Minidoka Powerplant	Reserved	Minidoka and Inman Powerplant Roof Replacement	В	s	3,664,958				\$ 3,664,958			\$ 3,664,958
Idaho	2	MINIDOKA PROJECT	Minidoka Powerplant	Reserved	Minidoka and Inman powerplant control room fire suppression system	С	9	1,548,779				\$ 1,548,779			\$ 1,548,779
		MINIDOKA					3								
Idaho	2	PROJECT	Minidoka Powerplant	Reserved	Air handler replacements for powerplants	С	S	960,757				\$ 898,443			\$ 898,443
Idaho	2	MINIDOKA PROJECT	Minidoka Powerplant	Reserved	Microwave System Backbone East Side	В	s	3,291,653				\$ 662,363			\$ 662,363
	_	MINIDOKA				_									
Idaho	2	PROJECT MINIDOKA	Minidoka Powerplant	Reserved	Minidoka Powerplant Interior Repairs Inman PP Stoplog Rehabilitation	D	S	240,000				\$ 240,000			\$ 240,000
Idaho	2	PROJECT	Minidoka Powerplant	Reserved	. 0	С	\$	120,000				\$ 120,000			\$ 120,000
Idaho	2	MINIDOKA PROJECT	Minidoka Powerplant	Reserved	Minidoka & Inman Generator Relay Rplc	A	s	562,602				\$ 63,630			\$ 63,630
		MINIDOKA													
Idaho	2	PROJECT	Minidoka Powerplant	Reserved	Switchyard Modernization - Minidoka Powerplant	A	S	2,649,448				\$ 56,000			\$ 56,000
Idaho	2	MINIDOKA PROJECT	Minidoka Powerplant	Reserved	Min - Inman PP Turbine Rehabilitation	A	s	13.052.596				\$ 29,450			\$ 29,450
		MINIDOKA	SNAKE RIVER EAST AREA		Minidoka EACSS Improvement Project (Minidoka Project							27,130			
Idaho	2	PROJECT	OFFICE	Reserved	Facility Security Evaluation & Modernization)  Design and construct new roadside overlook areas, exhibits,	D	S	1,506,860	\$ 1,421,750						\$ 1,421,750
Idaho	2	OTHER	OTHER	Reserved	roads, trails, camping areas and safety features.	В	\$	3,040,000	\$ 660,000		\$ 2,195,000				\$ 2,855,000
Idaho	2	PALISADES PROJECT	Palisades Dam and Reservoir	Reserved	Palisades Admin/Maint/Warehouse Building Replacement	A	s	9,412,139	\$ 3,312,375			\$ 3,432,502	\$ 2,567,392		\$ 9,312,269
Idaho	2	PALISADES PROJECT	Palisades Dam and Reservoir	Reserved	Palisades Hollow Jet Valve Replacement	С		2,926,925	\$ 978,701			\$ 1,014,196	\$ 758,583		\$ 2,751,480
		PALISADES			Palisades Dam - Repair the crown of the spillway tunnel near		,								
Idaho	2	PROJECT PALISADES	Palisades Dam and Reservoir	Reserved	the lower transition, and the damage near the invert.	E	S	250,000	\$ 88,925			\$ 92,150	\$ 68,925		\$ 250,000
Idaho	2	PROJECT	Palisades Dam and Reservoir	Reserved	Palisades Fixed Wheel Intake Gate Hydro Seal Replacement	A	s	65,721				\$ 18,980			\$ 18,980
		PALISADES			Palisades Dam - Replace the missing grating for the 18-inch drain connection located on the invert of the penstock manifold										
Idaho	2	PROJECT PALISADES	Palisades Dam and Reservoir	Reserved	to prevent large debris from entering the drain line.  Palisades Dam - Replace the roof on the spillway compressor	С	S	10,000	\$ 3,560			\$ 3,690	\$ 2,750		\$ 10,000
Idaho	2	PROJECT	Palisades Dam and Reservoir	Reserved	building.	D	s	10,000	\$ 3,560			\$ 3,690	\$ 2,750		\$ 10,000
		PALISADES	PALISADES DAM WELL												
Idaho	2	PROJECT PALISADES	HOUSE	Reserved	Palisades Camp Domestic Water System Replacement	В	S	859,972	\$ 3,000			\$ 26,000	\$ 3,000		\$ 32,000
Idaho	2	PROJECT	Palisades Powerplant	Reserved	Generator Unit Rewind	С	s	34,930,853				\$ 34,930,853			\$ 34,930,853
Idaho	2	PALISADES PROJECT	Palisades Powerplant	Reserved	Bridge Crane Modernization	В	s	8,188,745				\$ 8,188,745			\$ 8,188,745
		PALISADES													
Idaho	2	PROJECT PALISADES	Palisades Powerplant	Reserved	Switchyard Modernization - Palisades Powerplant	A	\$	5,597,612				\$ 3,616,356			\$ 3,616,356
Idaho	2	PROJECT	Palisades Powerplant	Reserved	Generator CO2 Fire Suppression Sys Rehabilitation	A	\$	1,004,299				\$ 1,004,299			\$ 1,004,299
Idaho	2	PALISADES PROJECT	Palisades Powerplant	Reserved	Palisades Powerplant Transformer Regasketing	D	s	800,000				\$ 800,000			\$ 800,000
					1							,			,
		PALISADES													
Idaho	2	PROJECT PALISADES	Palisades Powerplant	Reserved	Microwave System Backbone East Side at Palisades Palisades Generator Transformer Extension Relay	В	\$	3,499,596				\$ 714,130			\$ 714,130
Idaho	2	PROJECT	Palisades Powerplant	Reserved	Palisades Generator Transformer Extension Relay Modernization	С	s	346,000				\$ 346,000			\$ 346,000
Idaho	2	PALISADES PROJECT	Palisades Powerplant	Reserved	Generator Cooling Water Rings Replacement	В	s	304,000				\$ 152,000			\$ 152,000
rudiiU		. ACOPLC I	amoudes i oweipiant	resciveu	Cooling water Kings Replacement	ь	,	504,000				1,000			y 132,000
		PALISADES													
Idaho	2	PROJECT	Palisades Powerplant	Reserved	Palisades Powerplant Exciter Upgrade	В	s	154,248				\$ 120,000			\$ 120,000

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										Fundi	ng Categories*			
	T	ı	ı	Transferred /	T	MR&R		Reclamation	Appropriated	1		Non-Federal Financin	ıg	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	PALISADES	Asset Name	WOIKS	Repair steel liner and penstock manifold and rehabilitate steel	Kattiig	Costs	Saicty	Salety	r cuci ai	rmancing	water osers	rartiters	WIKKER Total
Idaho	2	PROJECT	Palisades Powerplant	Reserved	liner check valves	E	\$ 100,000	\$ 35,570			\$ 36,860	\$ 27,570		\$ 100,000 *
		PALISADES												
Idaho	2	PROJECT	Palisades Powerplant	Reserved	Pal isades Paving Rear Staging Area 2016	D	\$ 243,810				\$ 13,810			\$ 13,810
Idaho Idaho	2	RIRIE PROJECT		Reserved	Ririe Spillway - AAR Concrete Anayslis and Repairs	C	\$ 5,000,000	\$ 3,945,000				\$ 1,055,000 \$ 43,000		\$ 5,000,000 *
Idano	2	RIRIE PROJECT	Kirie Dam	Reserved	Ririe Chip Seal Road Ririe Dam - Repair the long vertical spall area (failed concrete	C	\$ 201,000	\$ 158,000			1	\$ 43,000		\$ 201,000 *
					patch) on the left wall of the outlet works stilling basin near its									
Idaho	2	RIRIE PROJECT	Ririe Dam	Reserved	upstream end.	D	\$ 5,000	\$ 3,950				\$ 1,050		\$ 5,000 *
					Ririe Dam - Clean and backfill the void on the upstream right	_								
Idaho Idaho	2	RIRIE PROJECT	Ririe Dam Ririe Reservoir Parks REC	Reserved Transferred	spillway abutment contact. Bonneville County Ririe Cost Share O&M	D E	\$ 3,000 \$ 1,000,000	\$ 2,370 \$ 320,000				\$ 630	\$ 320,000	\$ 3,000 * \$ 640,000 *
Idalio	2	KIKIE I KOJECI	KITIC RESERVOIL T BIRS RELE	Hansierred	Repairing asphalt on roadway and pedestrian trail. Installing	ь	3 1,000,000	3 320,000					3 320,000	\$ 040,000
Idaho	2	RIRIE PROJECT	Ririe Reservoir Parks REC	Transferred	security lights, additional parking and restrooms	D	\$ 615,000			\$ 615,000				\$ 615,000 *
Idaho	2		Ririe Reservoir Parks REC	Transferred	Ririe Blacktail Rip Rap Shoreline Asset Protection	D	\$ 10,000	\$ 10,000						\$ 10,000 *
Idaho	2	TBD - PN Region - SRAO	SNAKE RIVER AREA OFFICE / WEST	Reserved	Boise EACSS Improvement Project (Boise Project Facility Security Evaluation & Modernization)	D	\$ 3,194,142	\$ 2,977,780						\$ 2,977,780 *
Idano	2	SKAU	OFFICE/ WEST	Reserved	Security Evaluation & Modernization)	D	3 3,194,142	\$ 2,977,780						\$ 2,977,780
					Piezometer installation along the length of the New York Canal									
					and data analysis to help understand and model sub-surface									
			SNAKE RIVER AREA		water up-slope and downslope of the canal. Data will be used by	_								
Idaho	2	SRAO TBD - PN Region -	OFFICE / WEST SNAKE RIVER AREA	Reserved	Reclamation and partners for observation and design purposes.	С	\$ 2,953,910	\$ 1,667,790						\$ 1,667,790 *
Idaho	2	SRAO	OFFICE / WEST	Reserved	Middle Snake Field Office - Phone System Replacement	A	\$ 155,096	\$ 51,748			\$ 77,290	\$ 26,058		\$ 155,096 *
	<u> </u>								<b>†</b>		. ,,,2,0			
Idaho	2	TETON PROJECT	TEX CREEK STORAGE	Transferred	A5 Teton Dam Overlook Rehabilitation and Upgrade	D	\$ 250,000	\$ 250,000						\$ 250,000 *
			NORTON DAM, KEITH											
Kansas	1	P-S MBP, ALMENA UNIT	SEBELIUS LAKE (Prairie Dog Creek ZE)	Reserved	Spillway concrete repair	С	\$ 3,500,000	\$ 3,500,000						\$ 3,500,000 *
Kansas	1	ALMENA UNII	NORTON DAM, KEITH	Reserved	Spiriway concrete repair		3 3,300,000	3 3,300,000						\$ 3,300,000
		P-S MBP,	SEBELIUS LAKE (Prairie											
Kansas	1	ALMENA UNIT	Dog Creek ZE)	Reserved	Spillway concrete repair	В	\$ 2,500,000	\$ 2,500,000						\$ 2,500,000 *
		n a 1 mn	NORTON DAM, KEITH											
Kansas	1	P-S MBP, ALMENA UNIT	SEBELIUS LAKE (Prairie Dog Creek ZE)	Reserved	Repair of coatings on steel outlet pipe	D	\$ 1,800,000	\$ 1,800,000						\$ 1,800,000 *
Kansas	1	ALMENA UNII	NORTON DAM, KEITH	Reserved	Repair of coatings on steet outlet pipe	Б	\$ 1,800,000	5 1,800,000						\$ 1,800,000
		P-S MBP,	SEBELIUS LAKE (Prairie											
Kansas	1	ALMENA UNIT	Dog Creek ZE)	Reserved	Concrete roof repairs.	C	\$ 70,000	\$ 70,000						\$ 70,000 *
		P-S MBP,	V ON THE PARTY IN LANG											
Kansas	1	BOSTWICK DIVISION	LOVEWELL DAM, RESERVOIR	Reserved	Spillway concrete repair	В	\$ 2,500,000	\$ 2,500,000						\$ 2,500,000 *
Kansas	'	P-S MBP,	RESERVOIR	reserved	Spiriway concrete repair	В	3 2,300,000	3 2,300,000						3 2,300,000
		BOSTWICK	LOVEWELL DAM,											
Kansas	1	DIVISION	RESERVOIR	Reserved	Spillway gate painting	C	\$ 2,000,000	\$ 2,000,000						\$ 2,000,000 *
		D C MDD CEDAD	CEDAR BLUFF DAM,											
Kansas	1		RESERVOIR (Smoky Hill River ZE)	Reserved	Repair of coatings on steel outlet pipe	D	\$ 3,000,000	\$ 3,000,000						\$ 3,000,000 *
ruman	•	P-S MBP, GLEN	itive EE)	reserved	repair of countings on seed outlet pipe		3,000,000	\$ 3,000,000						3,000,000
Kansas	1	ELDER UNIT	DOWNS PROTECTIVE DIKE	Reserved	Concrete roof repairs.	C	\$ 50,000	\$ 50,000						\$ 50,000 *
1/		P-S MBP, GLEN	GLEN ELDER DAM, LAKE	ъ .	0.71									
Kansas	1	ELDER UNIT P-S MBP, GLEN	WACONDA GLEN ELDER DAM, LAKE	Reserved	Spillway concrete repair	В	\$ 26,000,000	\$ 25,500,000	<b> </b>		1			\$ 25,500,000
Kansas	1	ELDER UNIT	WACONDA	Reserved	Outlet Works Concrete Repair	В	\$ 1,250,000	\$ 1,250,000						\$ 1,250,000 *
		P-S MBP, GLEN	GLEN ELDER DAM, LAKE						1		1			
Kansas	1	ELDER UNIT	WACONDA	Reserved	Upper Soil Cement Repair	С	\$ 1,040,000	\$ 1,040,000	ļ		ļ			\$ 1,040,000 *
Kansas	1	P-S MBP, GLEN ELDER UNIT	GLEN ELDER DAM, LAKE WACONDA	Reserved	Spillway Bridge Joint Rehab.	D	\$ 500,000	\$ 500,000						\$ 500,000 *
Kansas	1	P-S MBP, GLEN	GLEN ELDER DAM, LAKE	Reserved	opinway muge Joint Renan.	ъ	\$ 500,000	\$ 500,000	<del> </del>		<del>                                     </del>			\$ 500,000 *
Kansas	1	ELDER UNIT	WACONDA	Reserved	Concrete roof repairs.	C	\$ 75,000	\$ 75,000						\$ 75,000 *
			KIRWIN DAM, RESERVOIR											
17		P-S MBP, KIRWIN UNIT	(North Fork Solomon River ZE)	m	o down to proceed									
Kansas	1	KIKWIN UNIT	ZE) KIRWIN DAM, RESERVOIR	1 ransferred	Outlet Works Recoating	D	\$ 2,000,000	\$ 2,000,000	<b> </b>		1			\$ 2,000,000 *
		P-S MBP,	(North Fork Solomon River	1										
Kansas	1	KIRWIN UNIT	ZE)	Transferred	Concrete roof repairs.	C	\$ 75,000	\$ 75,000						\$ 75,000 *
		P-S MBP,	WEBSTER DAM, DIKE,								1			
Kansas	1	WEBSTER UNIT	RESERVOIR	Reserved	Spillway walls concrete repair	В	\$ 2,000,000	\$ 2,000,000	<b> </b>	<b> </b>	<del> </del>			\$ 2,000,000 *
		P-S MBP.	WEBSTER DAM, DIKE,	1	Clean the lower portions of the spillway radial gates, replace the									
Kansas	1		RESERVOIR	Reserved	corroded gate hardware, and replace the protective coating.	C	\$ 1,780,000	\$ 1,780,000						\$ 1,780,000 *
		P-S MBP,	WEBSTER DAM, DIKE,											
Kansas	1	WEBSTER UNIT	RESERVOIR	Reserved	Concrete roof repairs.	С	\$ 50,000	\$ 50,000		ļ				\$ 50,000 *
	1	WEBSTER UNIT WICHITA- CHENEY	RESERVOIR	Reserved	Concrete roof repairs.  Rehabilitate corroded metal-work in the river outlet works gate chamber and shaft to include the ladder, vent pipe, electrical	С	\$ 50,000	\$ 50,000						\$ 50,000 *

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										Fundir	ng Categories*			
		1	T	Tr. 6 1/	T	MR&R	1	Reclamation	Appropriated			Non-Federal Financin	ıg	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		WICHITA-									Ŭ			
**		CHENEY	or		Make repairs to the soil cement slope protection on the upstream									
Kansas	4	PROJECT BITTERROOT	Cheney DAM, Reservoir Canals and Conduits (R and B	Transferred	face of the dam just below the normal water surface	D	\$ 300,000						\$ 300,000	\$ 300,000
Montana	1	PROJECT	lien asset only)	Transferred	Bitterroot Canal System - Main Canal Siphon 1 Replacement	В	\$ 3,200,000						\$ 2,950,000	\$ 2,950,000
			Lake Como Dam and				.,,,,						_,,,,,,,,,	_,_,,,,,,,
		BITTERROOT	Reservoir (R and B lien asset		Como Dam - Outlet works gate and stem rehabilitation or									
Montana	1	PROJECT BUFFALO	only)	Transferred	replacement.	C	\$ 1,300,000						\$ 1,300,000	\$ 1,300,000
		RAPIDS	Fallon, Fallon Relift Pumps (5		Buffalo Rapids Irrigation District #2 - Replace the electrical									
Montana	1	PROJECT	Units)	Transferred	breaker panel covers at all the facilities.	E	\$ 10,000						\$ 10,000	\$ 10,000
			i ´		Buffalo Rapids Irrigation District - Periodically clean the station									
					service transformers at the Shirley, Terry, and Fallon Relift									
		BUFFALO RAPIDS	Fallon, Fallon Relift Pumps (5		pumping plants to remove the oil and the debris, especially the build-up that occurs on the bushings. Cleaning needs to be									
Montana	1	PROJECT	Units)	Transferred	conducted wearing oil proof gloves.	E	\$ 6,000						\$ 6,000	\$ 6,000
Wontana		BUFFALO	O III III I	Transierred	Buffalo Rapids Irrigation District #2 - Tighten or repair the	Ľ	9 0,000						3 0,000	9 0,000
		RAPIDS	Fallon, Fallon Relift Pumps (5		liquid tight conduit connections on the pump motors at Fallon									
Montana	1	PROJECT	Units)	Transferred	Relift.	E	\$ 2,000						\$ 2,000	\$ 2,000
		BUFFALO			Buffalo Rapids Irrigation District #2 - Establish a program to									
		RAPIDS	Fallon, Fallon Relift Pumps (5		install temporary protective railing or covers at openings in the floor when pumps are removed to prevent personnel from falling									
Montana	1	PROJECT	Units)	Transferred	into the openings.	E	\$ 2,000	1					\$ 2,000	\$ 2,000
	•	BUFFALO	<u> </u>				_,,000	İ			1	İ	_,,,,,,	_,300
		RAPIDS	Fallon, Fallon Relift Pumps (5		Buffalo Rapids Irrigation District #2 - Protect loose wiring on									
Montana	1	PROJECT BUFFALO	Units)	Transferred	the pump motors at the Fallon Relift using conduit.	E	\$ 2,000	<b>+</b>			-		\$ 2,000	\$ 2,000
		RAPIDS	Shirley Pumping Plant (3		Buffalo Rapids Irrigation District #2 - Clean auxiliary controls									
Montana	1	PROJECT	Units, 111 Cfs)	Transferred	in the plants and replace the covers.	E	s 3.000						\$ 3,000	\$ 3,000
		BUFFALO			Buffalo Rapids Irrigation - Periodically check and tighten	-	.,,,,,						,,,,,	,
		RAPIDS	Shirley Pumping Plant (3		connections on the main disconnect switches at the pumping									
Montana	1	PROJECT	Units, 111 Cfs)	Transferred	facilities.	E	\$ 1,000						\$ 1,000	\$ 1,000
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Reservoir	Reserved	HH - Turbine, Stator, Winding Study and Upgrade	В	\$ 302,600,420				\$ 302,043,265			\$ 302,043,265
Montana	1	HUNGRY HORSE PROJECT	Hungry Horse Dam and	Reserved	HH Crane Controls, Dam and Power-DI (Hungry Horse)	В	\$ 25,784,484	\$ 7,024,386			\$ 16,390,236			\$ 23,414,622
Montana	1	HORSE PROJECT	Reservoir	Reserved	HH Crane Controls, Dam and Power-Di (Hungry Horse)	Б	3 23,784,484	\$ 7,024,380			3 10,390,230			\$ 23,414,022
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Γ Reservoir	Reserved	HH - Iso-Phase Bus Enclosure (uni-bus) Replacements	C	\$ 10,192,300				\$ 10,192,300			\$ 10,192,300
		***********			WY 50 - DU 44 40 - 10 - 1 - 0 - 10									
Montana	1	HUNGRY HORSE PROJECT	Hungry Horse Dam and	Reserved	HH - Elevators Blk 14, 19 and Powerplant Control Bay Upgrades	С	s 8,917,502				\$ 8,917,502			\$ 8,917,502
Montana	1	HORSE PROJECT	Keseivon	Reserved	Opgrades		3 0,917,302	-			3 0,717,302			\$ 6,517,302
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Reservoir	Reserved	HH - Unit Exciter Replacements	В	\$ 8,717,466				\$ 8,500,121			\$ 8,500,121
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Γ Reservoir	Reserved	HH - Power Transformer Fire Protection System Upgrade	В	\$ 5,584,586				\$ 4,819,368			\$ 4,819,368
		HUNGRY	II II D 1											
Montana	1	HORSE PROJECT	Hungry Horse Dam and	Reserved	HH - Unit Governor Replacements	В	\$ 4,704,165	\$ 1,286,693			\$ 3,002,287			\$ 4,288,980
Wontana	1	HORBET ROSECT	Reservoir	Reserved	1111 - Olit Governor Replacements	ь	3 4,704,103	3 1,200,073			3 3,002,207			9 4,200,700
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Reservoir	Reserved	HH - Power Plant Window Replacements	E	\$ 3,590,516				\$ 3,200,911			\$ 3,200,911
								1						
		HUNGRY	Hungry Horse Dam and					1						
Montana	1	HORSE PROJECT		Reserved	Radio System Addition - FD (Hungry Horse Dam)	D	\$ 3,296,374	\$ 705,149			\$ 1,546,285			\$ 2,251,434
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT		Reserved	HH - Fixed Wheel Gate Overhaul	C	\$ 2,377,122				\$ 1,918,960			\$ 1,918,960
	•			reserved		Ŭ	2,2,7,122	1			- 1,710,700			- 1,710,700
		HUNGRY	Hungry Horse Dam and	_				L						_
		ILLUDGE DDOTECT	Reservoir	Reserved	HH - Spillway Refurbishment	D	\$ 1,723,544	\$ 487,063	1		\$ 1,136,481	1	l	\$ 1,623,544
Montana	1	HORSE FROJECI			1 /		7		1					
Montana	1	HUNGRY	Hungry Horse Dam and				, , , , ,							

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										Fundin	g Categories*			]
	1		_	T		MR&R		Reclamation	Appropriated			Non-Federal Financia	ıg	
	Congressional	Authorized		Transferred / Reserved		Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Reservoir	Reserved	Visitor Center Exhibits and Virtual Tour (Hungry Horse)	E	\$ 1,210,591	\$ 308,000			\$ 874,918			\$ 1,182,918
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Reservoir	Reserved	HH - Disconnect Switches 581 and 781 Replacement	C	\$ 1,193,080				\$ 1,168,207			\$ 1,168,207
Montana	1	HUNGRY HORSE PROJECT	Hungry Horse Dam and Reservoir	Reserved	Visitor Center Rock Scaling & Netting (Hungry Horse)	D	\$ 1,154,000	s 443,000			\$ 670,000			\$ 1,113,000
Womana		HORBE I ROJECT	Reservoir	reserved	visitor Center Rock Searing & rectaing (Hungry Horse)	В	3 1,134,000	\$ 443,000			\$ 070,000			5 1,115,000
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Reservoir	Reserved	Log Boom Replacement (Hungry Horse)	С	\$ 1,011,000	\$ 335,000			\$ 676,000			\$ 1,011,000
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Reservoir	Reserved	Hungry Horse - Visitors Center Building HVAC Replacement	D	\$ 977,040	\$ 344,000			\$ 633,040			\$ 977,040
					Hungry Horse - Water Tank Rehabilitation and Painting (Continued use/need for tank dependent on									
		HUNGRY	Hungry Horse Dam and		outcome of Transformer Fire Deluge System design and									
Montana	1	HORSE PROJECT	Reservoir	Reserved	Domestic Water System designs)	E	\$ 1,416,000	\$ 240,000			\$ 560,000			\$ 800,000
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT		Reserved	Dam Drainage Sump Monitoring and Controls (Hungry Horse)	A	\$ 1,333,122	\$ 140,000			\$ 616,130			\$ 756,130
					, image, in the second		<i>y</i>	.,,,,,			,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		HUNGRY	и и в											
Montana	1	HUNGRY HORSE PROJECT	Hungry Horse Dam and Reservoir	Reserved	HH - Unit Control Board Upgrades	С	\$ 7,406,287	]			\$ 693,867			\$ 693,867
Monuna	· ·			reserved		Ü	7,100,207				0,00,007			\$ 0,00,007
		HUNGRY	Hungry Horse Dam and		Roof Replacement, Valve House and Dam Elevator Blk 14 &19									
Montana	1	HORSE PROJECT	Reservoir	Reserved	(Hungry Horse)	С	\$ 679,670	\$ 10,000			\$ 669,670			\$ 679,670
		HUNGRY	Hungry Horse Dam and		Hungry Horse Dam - Outlet Works Conduit Coating Spot									
Montana	1	HORSE PROJECT		Reserved	Repairs.	C	\$ 440,000	\$ 132,000			\$ 308,000			\$ 440,000
		HUNGRY	Hungry Horse Dam and		Pood Ambalt SWVD, VSD DD Barking Lat (Hungar Harca									
Montana	1	HORSE PROJECT	Reservoir	Reserved	Road Asphalt SWYD, VSB,PP Parking Lot (Hungry Horse Dam)	С	\$ 1,456,456				\$ 434,981			\$ 434,981
					,		, , , , , ,							
		HUNGRY	Hungry Horse Dam and		UU Compressor Player De Joing Spillyay Ping Goto									
Montana	1	HORSE PROJECT		Reserved	HH- Compressor Blower De-Icing, Spillway Ring Gate, Replacement.	С	\$ 400,000	\$ 109,357			\$ 255,166			\$ 364,523
		HUNGRY	House House Days and											
Montana	1	HORSE PROJECT	Hungry Horse Dam and Reservoir	Reserved	HH - Power Plant Domestic Water Supply Addition/Upgrade	С	\$ 612,607				\$ 332,000			\$ 332,000
					117									
Mantana		HUNGRY	Hungry Horse Dam and	Danamad	HHI Constation Boundary Tradition Boundary	C	\$ 2,573,068				e 200.000			6 200,000
Montana	1	HORSE PROJECT	Reservoir	Reserved	HH - Cavitation Repairs, Turbines Powerplant	C	\$ 2,573,068				\$ 290,000			\$ 290,000
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Reservoir	Reserved	HH - Technical Data Center Creation	D	\$ 469,314	\$ 87,000			\$ 203,000			\$ 290,000
		HUNGRY	Hungry Horse Dam and		HH Cultural Resources (Placeholder for specific projects to be									
Montana	1	HORSE PROJECT	Reservoir	Reserved	identified)	С	\$ 283,000	\$ 251,000						\$ 251,000
		HUNGRY	Hungry Horse Dam and											
Montana	1	HORSE PROJECT	Reservoir	Reserved	HH - Penstock Re-Coating	С	\$ 242,085				\$ 242,085			\$ 242,085
		HUNCDV	Hamana Hama Daman '		A S // I A C - I - stine With January Court on D - C - I inhouse C I					·				
Montana	1	HUNGRY HORSE PROJECT	Hungry Horse Dam and Reservoir	Reserved	A5/U4 Selective Withdrawal System Refurbishment (Hungry Horse Dam)	В	\$ 309,220	\$ 60,000			\$ 120,060			\$ 180,060
	<u> </u>						. 303,220	. 55,500			. 120,000			. 100,000
		HIDIODY.	и и » .					1						
Montana	1	HUNGRY HORSE PROJECT	Hungry Horse Dam and Reservoir	Reserved	HGH Station Service and Motor Control Center Upgrades	A	\$ 11,052,592	\$ 49,875			\$ 116,375			\$ 166,250
	<u> </u>			- ACCOUNTED			- 11,002,092	- 77,073			- 110,5/3			- 100,230
		HIDIODY.	и и » .					1						
Montana	1	HUNGRY HORSE PROJECT	Hungry Horse Dam and Reservoir	Reserved	HH - Lighting, Dam Parapet WALL, Replacement	E	\$ 436,520	\$ 36,060			\$ 84,141			\$ 120,201
	<u> </u>			- ACCOUNTED	Hungry Horse Dam - Remove vegetation and loose rock within a	-	- +50,520	2 30,000			, 07,171			- 120,201
		HUNGRY	Hungry Horse Dam and		25-footbuffer along the downstream lower right groin of the									
Montana	1	HORSE PROJECT	Reservoir	Reserved	dam.	Е	\$ 65,000	\$ 19,500			\$ 45,500			\$ 65,000
		HUNGRY	Hungry Horse Dam and		Hungry Horse Dam - Remove moss and grass growth from the			]						
Montana	1	HORSE PROJECT	Reservoir	Reserved	downstream baseof dam block 3 and dam block 26.	E	\$ 3,000	\$ 900			\$ 2,100			\$ 3,000
		HUNGRY	Production Plant and					]						
Montana	1	HORSE PROJECT		Reserved	2915 - U4 Rock Scaling/Netting Right Abutment PP Parking	С	\$ 1,490,212	]			\$ 487,628			\$ 487,628
							.,.,.,				,.20	•		,.20

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								ļ.			Fundin	ng Categories*			]
				ı	Transferred /	T	MR&R		Reclamation	Appropriated		<del>                                     </del>	Non-Federal Financia	ng	+
State	Congressi Distric		Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
			HUNTLEY	ANITA DAM, RESERVOIR		Anita Dam - Repair or replace the spillway due to deteriorated				2000					
Montana	1		PROJECT	(Offstream, MHE)	Transferred	concrete, and voids under and around the spillway.	D	\$ 100,000				ļ		\$ 100,000	\$ 100,000 *
						Anita Dam - Rehabilitate and upgrade the spillway bridge as described to include 1) replace existing pipe rail w/ W-beam; 2)									
						add transition and approach rails; 3) repair damaged concrete on	ŀ	į į							
						the deck, curbs, and upstream and downstream sides of bridge,	ŀ	į į							
						and the upstream right wingwall; and 4) add load limit and	ŀ	į į							
						single lane bridge signs and object markers. Or, perform the necessary steps to convert the bridge to a Type 2 bridge in	1								
		h	HUNTLEY	ANITA DAM, RESERVOIR		accordance with FAC 07-01 and complete the repairs listed in	ŀ	į į							
Montana	1		PROJECT	(Offstream, MHE)	Transferred	item 3 above.	С	\$ 50,000						\$ 50,000	\$ 50,000 *
						Anita Dam - Under the direction of a qualified engineer, repair		ı							
			HUNTLEY	ANITA DAM, RESERVOIR		erosion damage and provide adequate erosion protection on the	C								
Montana	- 1		PROJECT	(Offstream, MHE)	Transferred	upstream face of the dam.  Anita Dam - Repair the cracked area at the left side of the outlet	C	\$ 50,000				<del> </del>		\$ 50,000	50,000 *
		- 1	HUNTLEY	ANITA DAM, RESERVOIR		works discharge channel lining, and backfill voids behind the	ŀ	į į							
Montana	1		PROJECT	(Offstream, MHE)	Transferred	lining.	Е	\$ 10,000						\$ 10,000	\$ 10,000 *
		I.		ANTE DAME PROPERTION		Anita Dam - Clean mud and rust nodules from the outlet works	ŀ	į į							
Montana	1		HUNTLEY PROJECT	ANITA DAM, RESERVOIR (Offstream, MHE)	Transferred	gate stem, stem guides, and gate surfaces, and evaluate the condition of these features.	E	\$ 5,000						\$ 5,000	\$ 5,000 *
Montana	- 1	T,	FROJECT	(Offstream, WITE)	Hansieried	condition of these features.	E	3 3,000					<del>                                     </del>	3 3,000	3 3,000
		1	HUNTLEY	ANITA DAM, RESERVOIR		Anita Dam Remove woody trees from the upstream face of the	2	į į							
Montana	1	1	PROJECT	(Offstream, MHE)	Transferred		D	\$ 1,000						\$ 1,000	\$ 1,000 *
		ı,	HUNTLEY			Huntley Project Irrigation District System - Repair the concrete	ŀ	į į							
Montana	1		PROJECT	MAIN CANALS	Transferred	at the outlet from the energy dissipation center at the bottom of the Kautz Drop.	D	s 100,000						\$ 100,000	s 100,000 *
Woltana		T f	I ROJECI	Man Children	Transicired	Huntley Project Irrigation District System - Repair the cribbing	В	3 100,000						3 100,000	3 100,000
			HUNTLEY			and lagging at the inlet and outlet of Tunnel No. 2 to prevent	ŀ	į į							
Montana	1		PROJECT	MAIN CANALS	Transferred	loss of material into the tunnel.	D	\$ 50,000				<u> </u>		\$ 50,000	\$ 50,000 *
Montana	1		HUNTLEY PROJECT	MAIN CANALS	Transferred	Huntley Project Irrigation District System - Repair Concrete on the Intake for Tunnel 1 at, and below water level.	C	s 15,000						s 15,000	s 15,000 *
Montana	- 1	T,	FROJECI	WAIN CANALS	Hansieried	Huntley Project Irrigation District System - Repair concrete		3 15,000					<del>                                     </del>	3 13,000	3 13,000
						damage at the outlet end on the auxiliary headworks pipes and	1								
			HUNTLEY			regrout the annulus space between the auxiliary headworks pipes	•								
Montana	1		PROJECT HUNTLEY	MAIN CANALS	Transferred	and the original grout.	Е	\$ 10,000				ļ		\$ 10,000	\$ 10,000 *
Montana	1			MAIN CANALS	Transferred	Huntley Project Irrigation District System - Remove woody vegetation along canal banks through Huntley.	C	\$ 5,000						\$ 5,000	5,000 *
Wontana		T i	I ROJEC I	MAIN CANALO	riansicired	Huntley Project Irrigation District System - Prohibit or		3,000						3 3,000	3,000
			HUNTLEY			discourage entrance into the tunnel when the tunnel is not filled	ŀ	į į							
Montana	1	1	PROJECT	MAIN CANALS	Transferred	with water, using barriers and/or signing.	E	\$ 5,000				<u> </u>		\$ 5,000	5,000 *
						Huntley Project Irrigation District System - Repair the spalled concrete on the left side of the Tunnel No. 1 wall from the	ŀ	į į							
						tunnel outlet upstream for a distance of approximately 50 feet	1								
			HUNTLEY			and repair the spalled concrete on the left side of the stilling	ŀ	į į							
Montana	1	)	PROJECT	MAIN CANALS	Transferred	basin.	D	\$ 5,000						\$ 5,000	\$ 5,000 *
		١.	III DITTI EN			Huntley Project Irrigation District System - Repair the hole in	1								
Montana	1		HUNTLEY PROJECT	MAIN CANALS	Transferred	the right side wall of Tunnel No. l, approximately 20 feet downstream of the head gates for the canal.	D	s 2,500						s 2,500	) \$ 2,500 *
Montana	-		ROJECI	Man Children	Timbreirea	Huntley Project Irrigation District System - Set up a drain for the		2,500						2,500	2,300
		1	HUNTLEY			depression in the ground above tunnel 2 so that water will no	ŀ	į į							
Montana	1	1	PROJECT	MAIN CANALS	Transferred	longer pool.	С	\$ 2,000				<u> </u>		\$ 2,000	\$ 2,000 *
		١,	HUNTLEY			Huntley Project Irrigation District System - Control the woody vegetation behind the walls of the transition structure at the	ŀ	į į							
Montana	1		PROJECT	MAIN CANALS	Transferred	outlet of Tunnel 3.	D	\$ 1,000						\$ 1,000	\$ 1,000 *
						Lower Yellowstone #1 and #2 System - Upgrade walk bridges		.,						1,,,,,	
			LOWER			on the District to a minimum walkway width of 2 feet. Add	ŀ	į į							
Montana		- 13	YELLOWSTONE PROJECT	LOWER YELLOWSTONE MAIN CANAL	Transferred	handrails to walk bridges over the Main Canal and upstream of siphon entrances and other hazardous locations.	E	s 5,000						s 5.000	S 5.000 *
iviontana	1		LOWER	MAIN CANAL	ransterred	Lower Yellowstone #1 and #2 System - Install a siphon inlet	Е	\$ 5,000		1		<del>                                     </del>	<del></del>	\$ 5,000	\$ 5,000 *
			YELLOWSTONE	LOWER YELLOWSTONE		safety protection feature at any siphon entrance still lacking		1							
Montana	1	)	PROJECT	MAIN CANAL	Transferred	protection.	E	\$ 5,000						\$ 5,000	\$ 5,000 *
		7	LOWER	LOWER VELLOWS		Lower Yellowstone #1 and #2 System - Post a DANGER NO									
Montana	1		YELLOWSTONE PROJECT	LOWER YELLOWSTONE MAIN CANAL	Transferred	TRESPASSING or similar sign near the river pump station that supplies Lateral P.	r.	s 100						\$ 100	\$ 100 *
iviointalia	1		LOWER	CAIAL	ransierred	suppriso zatetat i .	_ c	3 100		1		<del>                                     </del>	<del>                                     </del>	9 100	9 100 *
		- 5		LOWER YELLOWSTONE		Lower Yellowstone #1 and #2 System - Place a lock on the trap		1							
Montana	1			MAIN CANAL	Transferred		E	\$ 10					<u> </u>	\$ 10	\$ 10 *
Mantana			MILK RIVER PROJECT	DOWDON CANAI	T	Malta Irrigation District - Repair or replace the siphon inlet right	D	\$ 10,000						\$ 10,000	\$ 10,000 *
Montana	1		PROJECI	BOWDOIN CANAL	Transferred	wingwall on the Bowdoin Canal.  Malta Irrigation District System - Repair or replace the inlet and	и	\$ 10,000		1		<del>                                     </del>	<del></del>	\$ 10,000	\$ 10,000 *
		l l	MILK RIVER			outlet terminal structures on the siphon in Dodson North Canal		1							
Montana	1	1	PROJECT	DODSON NORTH CANAL	Transferred	at station 525+00.	D	\$ 100,000		<u> </u>				\$ 100,000	\$ 100,000 *
			MILK RIVER	DODGON NOPTH CONT.	m -	Malta Irrigation District - Repair the leak in the Exedur siphon									
			PROJECT	DODSON NORTH CANAL	Transferred	on the Dodson North Canal.	D	\$ 50,000	l	1	i	i .	1	\$ 50,000	\$ 50,000 *
Montana	1				Transferred										
Montana	1			DODSON SOUTH CANAL (part is aka Nelson Feeder	Timbierred	Malta Irrigation District - Repair rodent holes that have collapsed in the embankment at station 1327+16. (CRID #3 -									

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

March   Marc											Fundin	g Categories*			
Mathematical   Math			1	1	T 6 1/		Man		Deslamation	Appropriated			Non-Federal Financia	ng .	
March   September   Septembe		Congressional	Authorized				Categorization	Estimated Total		Reclamation Dam	Other	Power	Reserved Works	Operating	
The STATE   Control of the Control	State		Project	Asset Name	Works		Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
SACE ROYER   Sept 4.41 Mem Peak   Sept 4.42 Mem P				DODGON COLITH CANAL											
1   PRINCE			MILK RIVER												
1	Montana	1			Transferred		D	\$ 10,000						\$ 10,000	\$ 10,000
March   Marc						The dam safety issues are associated with internal erosion									
March   Marc															
Mark No.   No.															
1						Corrective Action Study is complete and Reclamation is									
Mark Nove   Property															
The Content	Montana	1			Reserved		A	\$ 60,000,000		\$ 56,792,000					\$ 56,792,000
Part   Part	Montana	1			Reserved		C	\$ 140,000	\$ 140,000						\$ 140,000
PODE   Mark No. PEP	Montana	•	ricorder	(Mink Rever Till)	reserved	Fresno Dam - Replace the corroded metal footings supports as		110,000	110,000						110,000
MILE STOTE   MIL															
MILE ROYNE   PERSON DAY RESERVERS   Secretary   Secr	Montana	1	PROJECT	(Milk River HE)	Reserved		E	\$ 50,000	\$ 50,000						\$ 50,000
PROJECT   Molt Rev III)   Provided in Common   Provided   C   S   30,000   S   S   20,000   S   20,00			MILV DIVED	EDECNO DAM DECEDVOID		Abandon the hydraulic piezometer terminal well in accordance									
MILE RUPER   PERSON DAM, BESEVOR   Easeway	Montana	1			Reserved		С	\$ 20,000	\$ 20,000						\$ 20,000
MILE RUPE   MESSANDAM MESSANDAM   MESSANDAM MESSANDAM   MESSANDAM MESSANDAM   MESSANDAM MESSAN															
MILE RIVER   SISSNO DAM RESERVOR   Secretary   Secretary of the party or special content should be a provided from party of the party	Montana	1	PROJECT	(Milk River HE)	Reserved	as outfalls to toe drain system.	C	\$ 20,000	\$ 20,000	]		ļ			\$ 20,000
MILE REFUTE   PROPRIET   PROPRI															
MILK RUPE   PROPECT   AND SERVICE   PROPECT   AND SERVICE   PROPECT   AND SERVICE   PROPECT		1	Ì	1	I		ʻ		I			l			
1   PROJECT   Mail Nove 1879   Reserved   Secretary			MILK RIVER	FRESNO DAM, RESERVOIR											
MILK RUNG   ALE (Swift Current Cred   Part	Montana	1			Reserved		E	\$ 5,000	\$ 5,000						\$ 5,000
Image: Common   1   PROJECT   PROJ															
MILE RYPE   LAKE SHERRINGEN DAM.   PROJECT   LAKE SHERRINGEN DAM.   Project				LAKE (Swift Current Creek			~								4.50.000
MILE RYPE   ARE (Symit Curren Crock   Beyon and seal deficiency joint and excitation and civing cards in the first property of the property	Montana	1	PROJECT	HE)	Reserved	Rehabilitation of regulating gates	C	\$ 150,000	\$ 150,000						\$ 150,000
1   PRODECT   195   Reserved   Secretary   Reserved   Secretary			MILK RIVER			Repair and seal defective joints and existing cracks in the									
MILE RIVER   LAKE (Swift Current Creek   Reject intake instructs changed concert on the piers between   PRODECT   PRODUCT	Montana	1		HE)	Reserved		E	\$ 100,000	\$ 100,000						\$ 100,000
MILK RIVER   MIL															
MILK RIVER   Main Office at Penno   Reserved   Milk RIVER   PRODECT   Main Office at Penno   Reserved   Milk RIVER   PRODECT   MILK RIVER   PARADES VALLEY   Transformed in the proof of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation   Province of the milk of the sign with Male Activation on a will be sign with Male Activation on a will be sign with Male Activation   Province of the sign with Male Activation   Province of the sign with Male Activation on a will be sign with Male Activation   Province of the sign with Male Activation on a will b					ъ .			6 50000	6 50,000						6 50,000
MILK RIVER   Man Office at Fromo   Reserved   Milk Common   Milk Commo	Montana	1		HE)	Reserved	the emergency gate stems where the rebar is exposed.	D	5 50,000	\$ 50,000						\$ 50,000
MILK BYUR   ARABOSE VALLEY   PROJECT   OVERSKON DAM   Transferred from the county road of the discression dam.   E   5 0,000   S 0,000	Montana	1		Main Office at Fresno	Reserved	Office refurbishment	В	\$ 475,000	\$ 475,000						\$ 475,000 *
PROJECT   DIVERSION DAM   Transferred   Diversion dam   PROJECT   DIVERSION DAM   Transferred   Diversion dam   Diversion da						Paradise Diversion - Perform repairs at two sites on the river									
MILK RIVER ORDITET  MILK RIVER  MI															
PROJECT   OVERSION DAM   Transferred   Name   Nam	Montana	1			Transferred		E	\$ 20,000						\$ 20,000	\$ 20,000
Paralle Diversion - Place a warming sign approximately a hundred yeals specified from the many specified for death. The sign should say TDANGER* in white letters on a red hackground at high specified from the parallel specif	Montana	1			Transformed		E	\$ 5,000						\$ 5,000	\$ 5,000
hunded yask upstream of the dim to ware bosters of the dam. The sign whole while letters on a red background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background at the top of the sign, with black letters on a white background stream or the lover part of the sign, with black letters on a white background stream or the lover part of the sign, with black letters on a white background stream or the lover part of the sign, with black letters on a white background stream or the lover part of the sign, with black letters on a white background stream or the lover part of the sign, with black letters on a white background stream or the lover part of the sign, with black letters on a white background stream or the lover part of the sign, with black letters on a white background stream or the lover part of the sign, with black letters on a white letter on a white background stream or the lover part of the sign, with black letters on a white letter on a white letters on a white letters on a white letters on a white letters on a white letter or the letters of the sign, with black letters on a white letter or the letters of the sign, with black letters on a white letter or the letters of the sign, with black letters on a white letter or the sign, with background stream or the lover or the sign, with background stream or the lover or the sign, with background stream or the lover the sign, with background stream or the sign or the sign, wit	Wortana	1	I ROJEC I	DIVERSION DAM	Transierred	Paradise Diversion - Place a warning sign approximately a	L	3 3,000						3 3,000	3,000
bockground at the top of the sign, with black letters on a white bockground at the top of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be tracted.    MILK RUFER   ST MARY CANAL   Reserved   St Mary Devension Dam rehabilitation and fish screen   A   S   41,370,000   S						hundred yards upstream of the dam to warn boaters of the dam.									
MILK RIVER   PARADISE VALLEY   Some part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the sign. Letters should be at least 6 inches in the lower part of the lower part o															
MILK RIVER   ARADISE VALLEY   on the lower part of the sign. Letters should be teal least 6 inches															
MILK RIVER   PARADISE VALLEY   In   Interfered   PROJECT   DIVERSION DAM   Transferred   Reserved   St. Mary Diversion Dam rehabilitation and fish screen   A   \$41,370,000   \$41,370,000   \$5,41,370,000   \$6,000   \$15,000   \$							Š								
MILK RIVER   FROJECT   ST MARY CANAL   Reserved   St. Mary Diversion Dum rehabilitation and fish screen   A   S   41,370,000   S   41,370,00			MILK RIVER			in									
MILK RIVER   MIL	Montana	1		DIVERSION DAM	Transferred	height.	E	\$ 500						\$ 500	\$ 500
Antillar River   ST MARY CANAL   Reserved   Structures should be treated.   St Mary Canal   PROJECT   ST MARY CANAL   Reserved   Structures should be treated.   St Mary Canal   Project   Project   P				CT MADY CANAL	ъ .	C. M. D D 1175		6 41 270 000	6 41 270 000						6 41 270 000
MILK RIVER   ST MARY CANAL   Reserved   Structures and any vegetation growing in or on the drop   S   15,000   S   15,00	Montana	1	PROJECT	SI MARY CANAL	Reserved		A	\$ 41,370,000	\$ 41,370,000						\$ 41,370,000
MILK RIVER   MIL			MILK RIVER												
MILK RIVER Annual 1 PROJECT ST MARY CANAL Reserved the will drain freely and allow an inspection of the conduits. D \$ 10,000 \$ 10,000 \$ 10,000 \$ 10	Montana	1	PROJECT	ST MARY CANAL	Reserved		D	\$ 15,000	\$ 15,000						\$ 15,000
MILK RIVER Annual 1 PROJECT ST MARY CANAL Reserved the will drain freely and allow an inspection of the conduits. D \$ 10,000 \$ 10,000 \$ 10,000 \$ 10															
MILK RIVER   MIL			MILV DIVED				,								
MILK RIVER HONDECT ST MARY CANAL Reserved Canal.  MILK RIVER HONDECT VANDALIA CANAL Transferred HONDECT VANDALIA CANAL Transferred HONDECT VANDALIA CANAL Transferred HONDECT VANDALIA CANAL Transferred HONDECT VANDALIA CANAL Transferred HONDECT VANDALIA	Montana	1		ST MARY CANAL	Reserved		D	S 10.000	s 10.000						\$ 10.000
MILK RIVER MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATION MONTATI		-													
MILK RIVER  MILK RIVER  MILK RIVER  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MILK RIVER  MILK RIVER  MILK RIVER  MONTAINA  MILK RIVER  MONTAINA  MONTAINA  MILK RIVER  MONTAIN AND AND AND AND AND AND AND AND AND AN	Montana	1	PROJECT	ST MARY CANAL	Reserved		C	\$ 5,000	\$ 5,000						\$ 5,000
MILK RIVER   MIL															
Repair the concrete at the base of the box culverts in Vandalia South Canal turn under the railroad tracks upstream of Vandalia PROJECT VANDALIA CANAL Transferred Vandalia Point. Transferred Vandalia Point. Transferred Vandalia Point. Transferred Vandalia Point. Transferred Vandalia Point. Transferred Vandalia Point. Transferred Repair the concrete on the inlet and outlet ends of the railroad Constant of PROJECT VANDALIA CANAL Transferred Siphon where the wingwall meets the siphon. D \$ 25,000	Montono	1	PROJECT	VANDALIA CANAI	Transformad		D	9 25,000	I			l		9 25,000	9 25,000
MILK RIVER Montana 1 PROJECT VANDALIA CANAL Transferred Mentan under the railroad tracks upstream of MILK RIVER Montana 1 PROJECT VANDALIA CANAL Transferred Spain the concrete on the inlet and outlet ends of the railroad crossing at Transferred MILK RIVER MILK RIVER Montana 1 PROJECT VANDALIA CANAL Transferred Spain content the upstream side of the Antelope Creek Sphon MILK RIVER Montana 1 PROJECT VANDALIA CANAL Transferred Spain content the upstream side of the Antelope Creek Sphon MILK RIVER Montana 1 PROJECT VANDALIA CANAL Transferred Sphon domain the initial reach of Vandalia South Canal D \$ 0.000 S 0.0	MIDITION	1	I MOSECI	VALIA CANAL	riansterred		U	23,000	<b> </b>			<b> </b>	1	9 23,000	23,000
Annata   1   PROJECT   VANDALIA CANAL   Transferred   Vandalia Point.   D   \$ 25,000		1		1	I	South Canal that run under the railroad tracks upstream of			I			l			
Montana 1 PROJECT VANDALIA CANAL Transferred cossing at Tampico. D \$ 25,000	Montana	1		VANDALIA CANAL	Transferred	Vandalia Point.	D	\$ 25,000		]		ļ		\$ 25,000	\$ 25,000
MILK RIVER MONTANIA  1 PROJECT VANDALIA CANAL  Transferred MILK RIVER MILK RIVER MILK RIVER MILK RIVER  MILK RIVER  MILK RIVER  MILK RIVER  MILK RIVER  MILK RIVER  MILK RIVER  Repair Concrete on the upstream side of the Antelope Creek Siphon where the wingwall meets the siphon.  D \$ 10,000  \$ 10,000  \$ 10,000  \$ 5 0,000  \$ 6,000  MILK RIVER  MILK RIVER  MILK RIVER  MILK RIVER  Repair Concrete on the upstream side of the Antelope Creek Siphon where the wingwall meets the siphon.  D \$ 6,000  \$ 6,000  \$ 6,000  MILK RIVER  MILK RIVER															
Montana I PROJECT VANDALIA CANAL Transferred Siphon where the wingwall meets the siphon. D \$ 10,000	Montana	1		V ANDALIA CANAL	Transferred		D	\$ 25,000	<del>                                     </del>			<b> </b>		\$ 25,000	\$ 25,000
MILK RIVER  Montana 1 PROJECT VANDALIA CANAL Transferred initial reach of Vandalia South Canal lining in the initial reach of Vandalia South Canal D \$ 6,000 \$	Montana	1		VANDALIA CANAL	Transferred		Д	\$ 10.000	I			l		\$ 10.000	\$ 10.000
Annata   PROJECT VANDALIA CANAL   Transferred   initial reach of Vandalia South Canal   D \$ 6,000   \$ 6,		<u> </u>	MILK RIVER			Remove trees growing within 15 ft. of the canal lining in the			t	1		i	1		
within and/or overhanging the canal prism specifically in the following locations: upstream of the Brazil Creek Siphon,  MILK RIVER downstream of the WW36-1 wasteway, and upstream and	Montana	1		VANDALIA CANAL	Transferred	initial reach of Vandalia South Canal	D	\$ 6,000						\$ 6,000	\$ 6,000
following locations: upstream of the Brazil Creek Siphon, MILK RIVER downstream of the VW36-1 wasteway, and upstream and															
MILK RIVER downstream of the VW36-1 wasteway, and upstream and		1	Ì		I				I			l			
		1	MILK RIVER		I	downstream of the VW36-1 wasteway, and upstream and			I			l			
	Montana	1		VANDALIA CANAL	Transferred		D	\$ 4,000	<u> </u>			<u> </u>	<u> </u>	\$ 4,000	\$ 4,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Asset Management Report List of Major Rehabilitation and Replacement Activities FY 2021-2050

									Appropriated	Fundi	g Categories*	Non-Federal Financi	na	
				Transferred /		MR&R		Reclamation	Appropriated			Non-rederal rinanci	ng	
State	Congression District	nal Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
state	District	MILK RIVER	VANDALIA DIVERSION	WOLKS	Repair the right half of the concrete operating deck of the	Kating	Costs	Sarety	Sarcty	r cuci ai	rmancing	water Users	1 artifers	MK&K Total
Montana	1	PROJECT	DAM	Transferred	Vandalia Diversion Dam.	C	\$ 200,000						\$ 200,000	\$ 200,000
		MILK RIVER	VIII VIII VIII DIVIEDOVOI		Clean and recoat the lower portions of the crest gate radial and									
Montana	1	PROJECT	VANDALIA DIVERSION DAM	Transferred	vertical support arms and the lifting frames for the northernmost two sluice gates.	C	\$ 15,000						\$ 15,000	\$ 15,000
Monuna	•	ricord	27.11.1	Transferred	Repair and/or protect the concrete surfaces (i.e., piers and		15,000						13,000	10,000
					pedestals) of the Vandalia Diversion Dam from further freeze									
Montana	1	MILK RIVER PROJECT	VANDALIA DIVERSION DAM	Transferred	thaw deterioration by replacing the concrete and/or by application of concrete sealer.	C	\$ 15,000						\$ 15,000	\$ 15,000
Womana		I KOJEC I	DAM	Hansierred	Install and securely fasten walkway grating over deteriorated		3 15,000						3 15,000	5 15,000
		MILK RIVER	VANDALIA DIVERSION		areas of the concrete deck of Vandalia Diversion Dam, until									
Montana	1	PROJECT MILK RIVER	DAM VANDALIA DIVERSION	Transferred	permanent repairs can be made.	D	\$ 10,000						\$ 10,000	\$ 10,000
Montana	1	PROJECT	DAM	Transferred	Fix cable Handrail in Vandalia Dam Gallery	D	\$ 6,000						\$ 6,000	\$ 6,000
		MILK RIVER			Repair the erosion adjacent to the left wall of the Lateral V151									
Montana	1	PROJECT P-S MBP.	VANDALIA LATERALS	Transferred	check and turnout by backfilling and compacting the void.	Е	\$ 6,000						\$ 6,000	\$ 6,000
			Y CANYON FERRY DAM,											
Montana	1	UNIT	LAKE (Missouri River CG)	Reserved	Unit and Pumping Plant Penstock Stop Log Refurbishment	E	\$ 2,165,000	\$ 2,165,000						\$ 2,165,000
		P-S MBP,	Y CANYON FERRY DAM,					I		1			I	
Montana	1	UNIT	LAKE (Missouri River CG)	Reserved	Gantry crane refurbishing	D	\$ 1,330,000	\$ 1,149,500					1	\$ 1,149,500
		P-S MBP,	,		, ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, .,,						, .,,
Montana	,	CANYON FERR	Y CANYON FERRY DAM, LAKE (Missouri River CG)	Reserved	Refurbish river outlet works gate No. 1.	E	\$ 280,000	\$ 280,000		1			1	\$ 280,000
ivioniana	1	P-S MBP,	LAKE (IMISSOURI RIVER CO)	Reserved	Executional Tives Outles works gate NO. 1.	E	a 280,000	280,000	<b>†</b>				<del> </del>	o 280,000
		CANYON FERR	Y CANYON FERRY DAM,					L		1			1	
Montana	1	UNIT P-S MBP,	LAKE (Missouri River CG)	Reserved	Refurbish river outlet works gate No. 2.	Е	\$ 280,000	\$ 280,000						\$ 280,000
			Y CANYON FERRY DAM,		On Dam Spillway Bridge, repair steel floor beam flanges, where									
Montana	1	UNIT	LAKE (Missouri River CG)	Reserved	determined to be required	D	\$ 175,000	\$ 175,000						\$ 175,000
		P-S MBP, CANYON FERR	Y CANYON FERRY DAM,											
Montana	1	UNIT	LAKE (Missouri River CG)	Reserved	Repair damage to the upstream parapet and steel railing at the left end of the dam.	E	\$ 20,000	\$ 20,000						\$ 20,000
Monuna		P-S MBP,		reserved	nert old of the dail.		20,000	20,000						20,000
			Y CANYON FERRY DAM,		Abrasive blast and recoat the floor grating on the spillway radial	E	4							\$ 17,500
Montana	1	UNIT P-S MBP,	LAKE (Missouri River CG)	Reserved	gate hoist platform  Conduct an emergency balanced-head closure test of the Helena	E	\$ 17,500	\$ 17,500						\$ 17,500
		CANYON FERR	Y CANYON FERRY DAM,		Valley Pumping Plant fixed-wheel gate in accordance with the									
Montana	1	UNIT	LAKE (Missouri River CG)	Reserved	written procedures	D	\$ 15,000	\$ 15,000						\$ 15,000
		P-S MBP, CANYON FERR	Y CANYON FERRY DAM,		Canyon Ferry Dam - Replace the corroded electrical conduit in									
Montana	1	UNIT	LAKE (Missouri River CG)	Reserved	the El. 3720.0 Gallery.	E	\$ 5,000	\$ 5,000						\$ 5,000
		P-S MBP,												
Montana	1	UNIT	Y CANYON FERRY DAM, LAKE (Missouri River CG)	Reserved	Install safety shields on the rotating spillway hoist motor shafts and couplings to prevent potential injury to operating personnel	Е	\$ 5,000	\$ 5,000						\$ 5,000
	•	P-S MBP,		reserved		-	3,000	5,000						5,500
			Y CANYON FERRY DAM,		Abandon the automatic greasing system for spillway gates	_								
Montana	1	UNIT	LAKE (Missouri River CG)	Reserved	trunnion bearing Cut or rout small drainage trenches in the concrete floor of the	E	\$ 1,000	\$ 1,000						\$ 1,000
		P-S MBP,			elevation 3660.00 gate gallery to remove condensation water									
			Y CANYON FERRY DAM,		that accumulates around the river outlet works gate bonnets, and									
Montana	1	UNIT P-S MBP.	LAKE (Missouri River CG)	Reserved	convey the water into the gallery gutter.	E	\$ 1,000	\$ 1,000						\$ 1,000
			Y CANYON FERRY DAM,		Examine all foundation drain outfall pipes which run under the									
Montana	1	UNIT	LAKE (Missouri River CG)	Reserved	gallery walkways and clean plugged outfall pipes as necessary.	Е	\$ 1,000	\$ 1,000	ļ				1	\$ 1,000
		P-S MBP, CANYON FERR	Y Canyon Ferry General					I		1				
Montana	1	UNIT	Property, New Office Bldg	Reserved	Original Field Office and Visitor Center Rehab.	E	\$ 530,000	\$ 490,000		1				\$ 490,000
		P-S MBP,												
Montono	1	CANYON FERR UNIT	Y CANYON FERRY POWER FACILITY	Record	Canyon Ferry Powerplant Rehabilitation	С	\$ 74,300,000	I		1	\$ 53,407,000			\$ 53,407,000
Montana	'	P-S MBP,	CILII I	Reserved	Carryon 1 Stry 1 Owerplant (Chaofiniation		9 /4,500,000	<b>†</b>	İ		JJ,407,000		<b>†</b>	9 35,407,000
		CANYON FERR	Y CANYON FERRY POWER					I		1				
Montana	1	UNIT P-S MBP,	FACILITY	Reserved	Switchyard Replacement	D	\$ 3,157,900	1	ļ	-	\$ 2,001,000		1	\$ 2,001,000
			Y CANYON FERRY POWER					I		1				
Montana	1	UNIT	FACILITY	Reserved	Plant & Dam Low Voltage Distribution System Replacement	D	\$ 1,888,000	\$ 100,000			\$ 55,000			\$ 155,000
		P-S MBP,	Y CANYON FERRY POWER		Upgrade dam and powerplant low voltage electrical distribution									
Montana	1	UNIT	FACILITY	Reserved	opgrade dam and powerplant low voltage electrical distribution system	D	\$ 1,888,000	\$ 100,000			\$ 55,000		1	\$ 155,000
		P-S MBP,					-,,500	,500			,			,
Montana	,	CANYON FERR UNIT	Y CANYON FERRY POWER FACILITY	Reserved	Ctl	C	\$ 702,000	\$ 62,400					1	\$ 62,400
wiontana	1	UNII	FACILITY	Reserved	Control room roof replacement	C	\$ /02,000	s 62,400	<b>†</b>				<del> </del>	\$ 62,400
								I		1			I	
		P-S MBP, EAST	BARRETTS DIVERSION			_							1	\$ 50.000
ontana	1	BENCH UNIT	DAM	1 ransferred	Barretts Pedestrian Bridge replacement	E	\$ 414,000	\$ 50,000	1	l .	1		1	a 50,00

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			
									Appropriated			Non-Federal Financia	ng	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
State	District	Troject	1135Ct 11ame	110112	East Bench Irrigation District Recommendation 2006-2-D:	rung	Costs	Surety	Surety	reacran	Timmening	Water Osers	rantiners	MILLER TOLLI
		P-S MBP, EAST	BARRETTS DIVERSION		Replace the seals that leak on the shafts located at Barretts									
Montana	1	BENCH UNIT	DAM	Transferred	Diversion Dam.	E	\$ 10,000						\$ 10,000	\$ 10,000
		n a 1 mn n n am	CLARK CANYON DAM,		Rehabilitate the hydraulic operating system, including									
		P-S MBP, EAST	RESERVOIR (Beaverhead	TC C 1	replacement of hoist cylinder copper gaskets, oil packing and 4-		6 150,000	6 50.050					6 00.150	6 150,000
Montana	1	BENCH UNIT	River ZE) CLARK CANYON DAM,	Transferred	way valves used for remote operations.  Remove the gravel bar materials from the outlet works stilling	E	\$ 150,000	\$ 59,850					\$ 90,150	\$ 150,000
		P-S MBP, EAST	RESERVOIR (Beaverhead		basin and repair damage to the concrete and exposed reinforcing	.								
Montana	1	BENCH UNIT	River ZE)	Transferred	har	D	\$ 100,000	\$ 39.900					\$ 60,100	\$ 100,000
Montana	·	DEIGH CIGH	CLARK CANYON DAM,	Transferred	our.		3 100,000	5 37,700					5 00,100	¥ 100,000
		P-S MBP, EAST	RESERVOIR (Beaverhead		Seal the cracks in the concrete that are occurring at the vertical									
Montana	1	BENCH UNIT	River ZE)	Transferred	joints within the spillway drainage gallery.	E	\$ 1,000	\$ 400					\$ 600	\$ 1,000
		P-S MBP, EAST	CLARK CANYON		Subgrade preparation and asphalt overlay of 0.85 miles of Lake									
Montana	1	BENCH UNIT	RECREATION FACILITIES	Reserved	View Road.	D	\$ 195,000	\$ 195,000						\$ 195,000
		P-S MBP,			Maintain the crest width of the main embankment/dike, in the									
		HELENA	HELENA VALLEY DAM,		area of the canal outlet works, where pedestrian paths are									
Montana	1	VALLEY UNIT	RESERVOIR (Offstream ZE)	Transferred	encroaching on the crest width.	E	\$ 3,000	\$ 2,250					\$ 750	\$ 3,000
		P-S MBP.			Helena Valley Irrigation District - Remove the large trees									
			LOWER HELENA WALLEY		encroaching the O&M road near MP 23.7. (CRID #1 - HELENA	Λ.								
Montone	1	HELENA VALLEY UNIT	LOWER HELENA VALLEY CANAL (Reservoir to end)	Transform - 1	VALLEY CANAL - Check @ Sta. 1213+38 to Check @ Sta. 1322+05)	D	s 5.000				]		\$ 5,000	\$ 5,000
Montana	1	VALLET UNIT	CANAL (Reservoir to end)	Transferred	Helena Valley Irrigation District - Eradicate the rodent	ע	o 5,000	1	-		<b> </b>	-	a 5,000	a 5,000
		P-S MBP.			population and backfill the burrows in the O&M road between						]			
		HELENA	LOWER HELENA VALLEY		MP 24.4 and MP 24.9. (CRID #1 - HELENA VALLEY						]			
Montana	1	VALLEY UNIT	CANAL (Reservoir to end)	Transferred	CANAL - Check @ Sta.1213+38 to Check @ Sta. 1322+05)	D	\$ 5,000				]		\$ 5,000	\$ 5,000
	1				Helena Valley Irrigation District Recommendation 2018-2-A:		2,000	Ì					2,200	2,300
		P-S MBP,			Remove the small tree growing within the canal prism near MP						]			
		HELENA	LOWER HELENA VALLEY		23.6. (CRID #1 - HELENA VALLEY CANAL - Check									
Montana	1	VALLEY UNIT	CANAL (Reservoir to end)	Transferred	@Sta.1213+38 to Check @ Sta. 1322+05)	E	\$ 2,000						\$ 2,000	\$ 2,000
		P-S MBP,			Tiber Dam - Clean and recoat the gate bonnet, gate hoist,									
			TIBER DAM, DIKE, LAKE		hydraulic piping, and access ladder system metalwork in the									
Montana	1	UNIT	ELWELL (Marias River ZE)	Reserved	auxiliary outlet works regulating gate chamber.	C	\$ 1,245,000	\$ 1,145,000						\$ 1,145,000
		P-S MBP,			Tiber Dam - Realign the seal bars on the river outlet works									
		LOWER MARIAS			regulating gate frame to eliminate the gaps at the end of the bars	F								
Montana	1	P-S MBP.	ELWELL (Marias River ZE)	Reserved	and align the bars with the gate frame.	E	\$ 30,000	\$ 30,000						\$ 30,000
			TIBER DAM, DIKE, LAKE											
Montana	1	UNIT	ELWELL (Marias River ZE)	Reserved	Repair/Replace river outlet works tunnel walkway	В	s 60,000	s 25,000						\$ 25,000
Montana	1	P-S MBP.	ELWELL (Marias River ZE)	Reserved	Repair/Replace river outlet works tunnel walkway	Б	\$ 60,000	\$ 25,000						\$ 25,000
			TIBER RECREATION		Gravel road improvements on Adamson Road, access road to									
Montana	1	UNIT	FACILITIES	Reserved	Devon Recreation Area at Tiber Dam.	D	S 30.000			\$ 30,000				\$ 30,000
					Savage Irrigation District - Upgrade canal walk bridges on the									
					District to a minimum walkway width of 2 feet. Add handrails									
		P-S MBP,			where canal water depth is greater than 3 feet, and upstream of									
Montana	1	SAVAGE UNIT	SAVAGE MAIN CANAL	Transferred	siphon entrances and other hazardous locations.	E	\$ 15,000						\$ 15,000	\$ 15,000
		P-S MBP,	SAVAGE PUMPING PLANT		Savage Irrigation District - Modify the low-water sensor system									
Montana	1	SAVAGE UNIT	(2 units)	Transferred	at the pumping plant so it can shut off all three pumps.	E	\$ 5,000						\$ 5,000	\$ 5,000
		P-S MBP,	SAVAGE PUMPING PLANT		Vacuum-clean the interiors of the Pumping Plant electrical									
Montana	1	SAVAGE UNIT	(2 units)	Transferred	cabinets. compressed air, which could damage components.	E	\$ 100						\$ 100	\$ 100
		P-S MBP,	V-II											
Mantan	1	YELLOWTAIL UNIT	Yellowtail Acc Rd, Perm Oper Fac Area, Project Office	D	Remove and replace Yellowtail Field Office building	C	\$ 2,620,000	\$ 2,427,400						\$ 2,427,400
Montana	1	P-S MBP,	YELLOWTAIL ACCESS	Reserved	Yellowtail Area Road Improvements. 8.7 miles of asphalt road	C	\$ 2,620,000	\$ 2,427,400	-		<b> </b>	-	-	s 2,427,400
		YELLOWTAIL	ROADS, ASSOCIATED		improvements and 14,633 linear feet of guardrail modified or						]			
Montana	1	UNIT	STRUCTURES	Reserved	replaced.	D	\$ 5,588,650	\$ 1,075,500		\$ 4.513,150	]			\$ 5,588,650
omana	<del>  '</del>	P-S MBP.	YELLOWTAIL ACCESS	ACCOUNTED		-	2,500,050	- 1,075,500		- 1,010,100	1	1		2,360,030
		YELLOWTAIL	ROADS, ASSOCIATED								]			
Montana	1	UNIT	STRUCTURES	Reserved	Access road rock scaling and removal	С	\$ 353,000	\$ 353,000			]			\$ 353,000
					Place appropriate backfill material on the downstream face of		, , , , , , , , , , , , , , , , ,	,			ĺ			,
	1	P-S MBP,	YELLOWTAIL AFTERBAY	1	Dike No. 1, at the left side of the spillway stilling basin left wall						1		1	
		YELLOWTAIL	DAM, RESERVOIR (Bighorn		where the backfill has been eroded up to 3-feet deep by						]			
Montana	1	UNIT	Rvr CG EW)	Reserved	recreationist foot traffic.	E	\$ 10,000	\$ 10,000						\$ 10,000
		P-S MBP,	YELLOWTAIL DAM,								1			
	1 .	YELLOWTAIL	BIGHORN LAKE (Bighorn	_	L.,									
Montana	1	UNIT	Rvr, CMT)	Reserved	Right abutment ice barrier addition	С	\$ 1,103,000	\$ 1,030,000						\$ 1,030,000
		P-S MBP,	YELLOWTAIL DAM,		0 4 6671 4 4 4 1 1 1									
	l .	YELLOWTAIL	BIGHORN LAKE (Bighorn Rvr. CMT)	ъ .	Coat areas of failed coating on the downstream sides of the	C	6 1,000,000	e 1,000,000						6 1,000,000
Montana	1	UNIT P-S MBP.	Rvr, CMT) YELLOWTAIL DAM,	Reserved	spillway radial gates.	C	\$ 1,000,000	\$ 1,000,000	<del>                                     </del>		-	1	<b> </b>	\$ 1,000,000
		YELLOWTAIL	BIGHORN LAKE (Bighorn		Clean and recoate (or replace) gallery stairways and railings in									
Montana	1	UNIT	Rvr, CMT)	Reserved	accordance with Reclamation Guide to Protective Coatings.	E	\$ 500,000	\$ 500,000						\$ 500,000
iviOiitaiid	1	P-S MBP,	YELLOWTAIL DAM,	Reserved	accordance with Recianiation Guide to Protective Coatings.	E	> 300,000	y 500,000						9 300,000
		YELLOWTAIL	BIGHORN LAKE (Bighorn		Repair damaged concrete in both bays of the river outlet works						]			
Montana	1	UNIT	Rvr, CMT)	Reserved	stilling basin.	E	\$ 500,000	\$ 500,000			]			\$ 500,000
	†	T	,,		Redirect surface runoff from the left end of the dam crest and	<del>   </del>	. 500,000	. 500,000			1	1	1	. 500,300
	1	P-S MBP,	YELLOWTAIL DAM,	1	the left downstream abutment area, to prevent concentrated						1		1	
		YELLOWTAIL	BIGHORN LAKE (Bighorn		flows from being directed down the downstream left groin of the	e								
Montana	1	UNIT	Rvr. CMT)	Reserved	dam.	E	\$ 15,000	\$ 15,000			l		ĺ	\$ 15,000

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										Fundi	ng Categories*			4
	1	1		Im e ·	T	MDeD	1	Reclamation	Appropriated	1	ļ	Non-Federal Financia	ng	<b></b>
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Tota Costs		Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
Montana	1	P-S MBP, YELLOWTAIL UNIT	YELLOWTAIL DAM, BIGHORN LAKE (Bighorn Rvr, CMT)	Reserved	Stabilize the rip rap on the downstream right side of the spillway stilling basin	Е	\$ 10,0	00 \$ 10,000						\$ 10,000
		P-S MBP, YELLOWTAIL	YELLOWTAIL		Repair damaged concrete along the crown of the spillway tunnel									
ontana	1	UNIT P-S MBP,	POWERPLANT (Four units)	Reserved	at the tunnel outlet.	D	\$ 3,137,2	00 \$ 2,877,000	)					\$ 2,877,0
ontana	1	YELLOWTAIL UNIT	YELLOWTAIL POWERPLANT (Four units)	Reserved	Stator rewind	С	\$ 57,205,0	00			\$ 2,647,000			\$ 2,647,0
		P-S MBP, YELLOWTAIL	YELLOWTAIL		Upgrade dam & powerplant low voltage electrical distribution									
ontana	1	UNIT P-S MBP,	POWERPLANT (Four units)	Reserved	system	D	\$ 1,560,0	00 \$ 194,100	)		\$ 76,100			\$ 270,2
ontana	1	YELLOWTAIL UNIT	YELLOWTAIL POWERPLANT (Four units)	Reserved	Unit draft tube, head cover, scroll case recoating	С	\$ 3,450,0	00 \$ 6,700	,					\$ 6,7
		SUN RIVER			Fort Shaw Irrigation District - Repair the concrete of the									1.
lontana	1	PROJECT	FORT SHAW CANAL	Transferred	headgate structure downstream walls. Fort Shaw Irrigation District - Clean and install a filler and	E	\$ 15,0	00					\$ 15,000	\$ 15,0
ontana	1	SUN RIVER PROJECT	FORT SHAW CANAL	Transferred	sealant to the open construction joint located approximately station 13+00.	E	\$ 10,0	00					\$ 10,000	\$ 10,0
					Fort Shaw Irrigation District - Seal the top openings of the cracks in the Sequist Drop with closed-cell foam backer rod and elastomeric sealer such as Sikaflex and coat the deteriorated horizontal and chamfered surfaces with a high molecular weight									
		SUN RIVER			methacrylate sealer such as KwikBond 204/103 applied according to the procedures outlined in Reclamations Guide to									
Iontana	1	PROJECT	FORT SHAW CANAL	Transferred	Concrete Repair.  Fort Shaw Irrigation District -: Reposition and secure the steel	Е	\$ 10,0	00					\$ 10,000	\$ 10,0
		SUN RIVER			band to hold sealing material in place on the pipe barrel located									
Iontana	1	PROJECT	FORT SHAW CANAL	Transferred	between piers #4 and #5. Fort Shaw Irrigation District - Repair areas of concrete	E	\$ 5,0	00					\$ 5,000	\$ 5,0
Iontana	1	SUN RIVER PROJECT	FORT SHAW DIVERSION DAM	Transferred	deterioration on the upstream side of the Diversion Dam Headworks.	D	\$ 50,0	00					\$ 50,000	\$ 50,0
Iontana		SUN RIVER PROJECT	GIBSON DAM, RESERVOIR (N Fork Sun Rvr, Concr Thick Arch)			В	\$ 13,119.5			\$13,119,500				\$ 13,119,
Iontana	1	SUN RIVER	GIBSON DAM, RESERVOIR (N Fork Sun Rvr, Coner Thick	Transferred	Sun River Bridge Replacement  Gibson Dam - Remove the old packing material and install new packing into each outlet works conduit slip joint where the jet	В	\$ 13,119,3	00		\$13,119,500				\$ 13,119,
lontana	1	PROJECT	Arch) GIBSON DAM, RESERVOIR	Transferred	flow gate flange is inserted into the discharge pipe.  Greenfields Irrigation District - Sun River Bridge. Attach precast	E	\$ 25,0	00					\$ 25,000	\$ 25,0
Iontana	,	SUN RIVER PROJECT	(N Fork Sun Rvr, Concr Thick Arch)	Transferred	decking to superstructure to restrict lateral movement of the decking.	E	s 25.0	00		\$ 25,000				\$ 25,0
юпапа	1	PROJECT	Aren)	Transferred	Greenfields Irrigation District Recommendation 2017-2-A: Sun River Bridge_At Right Abutment, Downstream and Upstream		3 23,0	00		\$ 25,000				\$ 23,0
					roller bearings.  1. Clean roller bearing plate of debris to prevent corrosion and									
					to allow for unobstructed longitudinal movement. This recommendation should be performed as an annual maintenance									
					item.  2. Jack up truss and reposition roller bearing assembly onto									
		SUN RIVER	GIBSON DAM, RESERVOIR (N Fork Sun Rvr, Concr Thick		abutment steel bearing plate. Lubricate bearings to allow these elements to operate as intended.									
Iontana	1	PROJECT	Arch) GIBSON DAM, RESERVOIR	Transferred	Design and install a new truss bearing plate restraint system.	E	\$ 25,0	00					\$ 25,000	\$ 25,0
lontana	1	SUN RIVER PROJECT	(N Fork Sun Rvr, Concr Thick Arch)	Transferred	Gibson Dam - Repair coating failures on the outlet works jet flow gates and piping.	E	\$ 10,0	00					\$ 10,000	\$ 10.
		SUN RIVER	GIBSON DAM, RESERVOIR (N Fork Sun Rvr, Concr Thick		Gibson - Repair the damaged concrete on the downstream left corner on the exterior of the old needle valve vaults in									
ontana	1	PROJECT	Arch) GIBSON DAM, RESERVOIR	Transferred	accordance with Reclamations guide to concrete repair.	Е	\$ 5,0	00	1				\$ 5,000	\$ 5,0
Iontana	1	SUN RIVER PROJECT	(N Fork Sun Rvr, Concr Thick Arch)	Transferred	Greenfields Irrigation District - On the Sun River Bridge (MTA- SR-001) backfill eroded areas near the north approach span.	Е	\$ 5,0	00		\$ 5,000	<u></u>			\$ 5,0
		SUN RIVER	GIBSON DAM, RESERVOIR (N Fork Sun Rvr, Concr Thick		Gibson - Clean the 6-inch-diameter formed drain outfalls located at the toe of the dam and left of the outlet works control									
Montana	1	PROJECT	Arch) GIBSON DAM, RESERVOIR	Transferred	house so that they are free flowing.	Е	\$ 1,0	00	†				\$ 1,000	\$ 1,0
Iontana	1	SUN RIVER PROJECT	(N Fork Sun Rvr, Concr Thick Arch)	Transferred	Gibson - Locate and clean the floor drains for the right old needle valve vault so that water properly drains from the vault.	E	\$ 1,0	00					\$ 1,000	\$ 1,0
					Greenfields Irrigation District - Remove the existing dis-bonded concrete repair material at spring line on the right side of the									
	1	SUN RIVER			Arnold Coulee Drop structure at Sta 3+83 and then repair the		1			1	1		ĺ	

5,000 \*

PROJECT

SUN RIVER

PROJECT

GREENFIELDS DRAINS

RESERVOIR (Offstream ZE)

PISHKUN DIKES (8),

concrete.

oe drain SM-DK-1-LT (Dike 1 left toe drain) outfall and

measurement weir for a distance of 15 feet.

Montana

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										Fundin	g Categories*			l
					<del>-</del>				Appropriated			Non-Federal Financia	ng	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
					Willow Creek - Remove the access ladders and platforms in the									
			WILLOW CREEK DAM,		regulating gate access shaft (and provide for rope-access of entrants). Alternatively, replace or clean and re-coat the									
		SUN RIVER	DIKES, RESERVOIR (Willow		metalwork of the access ladders (and provide for rope-retrieval									
Montana	1	PROJECT	Crk, MT MHE)	Transferred	of entrants).	C	s 25,000						\$ 25,000	\$ 25,000 *
Wolltana	· ·	I KOJEC I	WILLOW CREEK DAM,	Hansterred	Willow Creek - Install an adjustable pressure relief valve in the	Č	3 23,000						\$ 25,000	3 25,000
		SUN RIVER	DIKES, RESERVOIR (Willow		outlet works hydraulic operating system to protect the outlet									l
Montana	1	PROJECT	Crk, MT MHE)	Transferred	works gate stems, stem guides, and gate seats.	E	\$ 5,000						\$ 5,000	\$ 5,000 *
			WILLOW CREEK DAM,		Willow Creek - Repair the deteriorated concrete sections of the									
		SUN RIVER	DIKES, RESERVOIR (Willow		outlet works tunnel, in accordance with Reclamation Guide to									1
Montana	1	PROJECT	Crk, MT MHE)	Transferred	Concrete Repair.	E	\$ 5,000						\$ 5,000	\$ 5,000 *
		P-S MBP												
		FRENCHMAN-												l l
Nebraska	3	CAMBRIDGE DV	CAMBRIDGE CANAL	Transferred	Frenchman - Cambridge Bridge Replacement with Culverts	C	\$ 182,400	\$ 182,400						\$ 182,400 *
		P-S MBP												i l
		FRENCHMAN-	ENDERS DAM, RESERVOIR			_								
Nebraska	3		(Frenchman Creek HE)	Reserved	Riprap improvements on the upstream embankment.	С	\$ 2,000,000	\$ 2,000,000						\$ 2,000,000
		P-S MBP	ENIBERA BANK BEAUTINA											1
Make 1	3	FRENCHMAN-	ENDERS DAM, RESERVOIR	Den 1	Gt	C	e #0.000	6 50.000			1	Ī	I	6 50,000
Nebraska	3	CAMBRIDGE DV P-S MBP	(Frenchman Creek HE) MEDICINE CREEK DAM,	Reserved	Concrete roof repairs.	C	\$ 50,000	\$ 50,000	1		-	<del> </del>	-	\$ 50,000 *
		P-S MBP FRENCHMAN-	MEDICINE CREEK DAM, HENRY STRUNK LAKE	1										i l
Nebraska	3	FRENCHMAN- CAMBRIDGE DV		Dancon-1	Spillyon concrete reneir	В	\$ 3,500,000	\$ 3,500,000						\$ 3,500,000 *
inediaska	3	P-S MBP	MEDICINE CREEK DAM,	Reserved	Spillway concrete repair	В	\$ 5,500,000	a 3,300,000	-		<b> </b>		<del></del>	a 5,500,000 °
		FRENCHMAN-	HENRY STRUNK LAKE	I				1			1		1	i l
Nebraska	3		(Medicine Creek ZE)	Reserved	Repair of coatings on steel outlet pipe	D	\$ 2,500,000	\$ 2,500,000						\$ 2,500,000 *
. veorabka	,	P-S MBP	MEDICINE CREEK DAM.	reserveu	Repair of coatings on steel outlet pipe  Repair failed concrete repairs and hollow sounding	ь	2,300,000	2,300,000	1			1	1	2,300,000
		FRENCHMAN-	HENRY STRUNK LAKE	1	(delaminated) areas on the spillway chute and stilling basin									i
Nebraska	3	CAMBRIDGE DV		Reserved	floors.	C	s 2,000,000	\$ 2,000,000						\$ 2,000,000 *
rebiaska	,	P-S MBP	MEDICINE CREEK DAM,	reserved	noors.	-	3 2,000,000	3 2,000,000						3 2,000,000
		FRENCHMAN-	HENRY STRUNK LAKE											i l
Nebraska	3	CAMBRIDGE DV		Reserved	Spillway and Outlet Works Concrete Repair	В	\$ 2,000,000	\$ 2,000,000						\$ 2,000,000 *
		P-S MBP	MEDICINE CREEK DAM,											_,,,,,,,,
		FRENCHMAN-	HENRY STRUNK LAKE											1
Nebraska	3	CAMBRIDGE DV	(Medicine Creek ZE)	Reserved	Concrete roof repairs.	C	\$ 50,000	\$ 50,000						\$ 50,000 *
		P-S MBP	MEDICINE CREEK DAM,		Install waterproof sealant in cracks in the concrete of the									
		FRENCHMAN-	HENRY STRUNK LAKE		upstream face of the spillway crest and in cracks on the top of									1
Nebraska	3	CAMBRIDGE DV		Reserved	the left wall of the outlet works stilling basin	C	\$ 20,000	\$ 20,000						\$ 20,000 *
		P-S MBP	RED WILLOW DAM, HUGH											
		FRENCHMAN-	BUTLER LAKE (Red Willow											1
Nebraska	3	CAMBRIDGE DV		Reserved	Repair of coatings on steel outlet pipe	D	\$ 3,000,000	\$ 3,000,000						\$ 3,000,000 *
		P-S MBP	RED WILLOW DAM, HUGH											1
		FRENCHMAN-	BUTLER LAKE (Red Willow											1
Nebraska	3	CAMBRIDGE DV		Reserved	Riprap improvements on the upstream embankment.	C	\$ 2,000,000	\$ 2,000,000						\$ 2,000,000 *
		P-S MBP	RED WILLOW DAM, HUGH											1
NI I	3	FRENCHMAN-	BUTLER LAKE (Red Willow	D 1		C	6 50,000	6 50,000						6 50,000
Nebraska	3	CAMBRIDGE DV P-S MBP	Creek ZE) TRENTON DAM.	Reserved	Concrete roof repairs.	C	\$ 50,000	\$ 50,000						\$ 50,000 *
		FRENCHMAN-	SWANSON LAKE											l l
Nebraska	3	CAMBRIDGE DV		Reserved	Repair of coatings on steel outlet pipe	D	\$ 4,000,000	\$ 4,000,000						\$ 4,000,000 *
. veorabka	,	P-S MBP	TRENTON DAM,	reserveu	repair or comings on sicer ounct pipe	ь	4,000,000	÷,000,000	1			1	1	÷,000,000
	1	FRENCHMAN-	SWANSON LAKE	1				I			1	Ī	I	1
Nebraska	3		(Republican River ZE)	Reserved	Spillway concrete repair	С	\$ 1,040,000	\$ 1,040,000						\$ 1,040,000 *
		P-S MBP	TRENTON DAM,		l	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			İ			,,
	1	FRENCHMAN-	SWANSON LAKE	1				I			1	Ī	I	i
Nebraska	3	CAMBRIDGE DV		Reserved	Spillway Bridge Rehab.	D	\$ 600,000	\$ 600,000			1	Ī	I	\$ 600,000 *
		P-S MBP	TRENTON DAM,											
		FRENCHMAN-	SWANSON LAKE	1										i
Nebraska	3	CAMBRIDGE DV	(Republican River ZE)	Reserved	Concrete roof repairs.	C	\$ 75,000	\$ 75,000	<u> </u>		L			\$ 75,000 *
		P-S MBP,												
	1	KANSAS RIVER		1				I			1	Ī	I	i
Nebraska	3	AREA O&M	Communication Network	Reserved	SCADA Communications Upgrades	D	\$ 500,000	\$ 500,000						\$ 500,000 *
	1	P-S MBP,	L	1				I			1	Ī	I	i
		KANSAS RIVER		l	La receiva de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición de la composición de la composición dela composición de la composición dela composición dela composición dela composición dela composición dela composición dela compos						1	Ī	I	
Nebraska	3	AREA O&M	Vehicle / Equipment Storage	Reserved	McCook Vehicle Storage Improvements 10 Stall	Е	\$ 150,000	\$ 150,000						\$ 150,000 *
	1	P-S MBP,	M.O. IN A COUNTY	1				I			1	Ī	I	1
Maharak	3	KANSAS RIVER AREA O&M	McCook North 6 Stall Vehicle	B	M-Cl-V-ki-l- St I	E	e 100.000	s 100,000			1	Ī	I	\$ 100,000 *
Nebraska	3	P-S MBP.	/ Equipment Storage	Reserved	McCook Vehicle Storage Improvements 6 Stall	E	\$ 100,000	\$ 100,000						\$ 100,000 °
	1	P-S MBP, KANSAS RIVER	McCook West 22 Stall Vehicle	1				I			1	Ī	I	1
Nebraska	2	AREA O&M	/ Equipment Storage	Reserved	McCook Vehicle Storage Improvements 22 Stall	F	\$ 300,000	\$ 300,000			1	Ī	I	\$ 300,000
inedraska	3	P-S MBP.	- Equipment Storage	Reserved	INFOCOR VEHICLE STORAGE IMPROVEMENTS 22 STAIL	E	3 300,000	a 500,000	1		1	1	<del></del>	a 300,000 °
		KANSAS RIVER	SCADA Remote Monitoring	1										i I
Nebraska	2	AREA O&M	SCADA Remote Monitoring System	Reserved	SCADA Replacement	D	\$ 1,000,000	\$ 1,000,000			1	Ī	I	\$ 1,000,000 *
inedraska	3	NEWLANDS	CARSON RIVER	Reserved	ослада керіасетені	и	3 1,000,000	3 1,000,000	1		-	1	-	o 1,000,000 °
Nevada	2	PROJECT	DIVERSION DAM	Transferred	Refurbish or replace 21 gates.	D	\$ 3,150,000						\$ 3,150,000	\$ 3,150,000 *
. ve vaua	<del></del>	NEWLANDS	DITERDION DAM	ransierieu	Construction of Fish Screen to prevent Lahontan Cuthroat Trout		3,130,000						5,150,000	5,150,000
Nevada	2	PROJECT	DERBY DIVERSION DAM	Transferred	and Cui-ui from entering Carson River Basin	A	\$ 34,000,000	\$ 2,969,000			1	Ī	I	\$ 2,969,000
. 10 1444			- I DIVERDION DAM	. rumsremed	oneing caron farer basin		5 1,000,000	2,707,000						2,707,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			
	ı	1	T	Transferred /	Г	MR&R		Reclamation	Appropriated			Non-Federal Financi	ng	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
Nevada	2	NEWLANDS PROJECT	DERBY DIVERSION DAM	Transferred	Refurbish or replace 12 gates.	С	\$ 1,800,000						\$ 1,800,000	\$ 1,800,000 *
Nevada	2	NEWLANDS PROJECT	DERBY DIVERSION DAM	Transferred	Dredging material above Derby Dam	С	\$ 650,000	\$ 650,000					,,,,,,,,,	\$ 650,000 *
Nevada	2	NEWLANDS PROJECT	LAHONTAN DAM and RESERVOIR	Transferred	Rehabilitate concrete spillway bridges	Е	\$ 5,000,000						\$ 5,000,000	\$ 5,000,000 *
		NEWLANDS	LAHONTAN DAM and			Ľ								
Nevada	2	PROJECT NEWLANDS	RESERVOIR LAHONTAN DAM and	Transferred	Refurbish Left Conduit Dome Valve Sandblast/recoat Penstock at Lahontan Dam, Newlands Project.	С	\$ 1,600,000						\$ 1,400,000	\$ 1,400,000 *
Nevada	2	PROJECT	RESERVOIR	Transferred	Proposed by water district.	D	\$ 1,200,000						\$ 1,200,000	\$ 1,200,000 *
		NEWLANDS	LAHONTAN DAM and		Sandblast/recoat upper and lower gates, stems, and trash racks at Lahontan Dam intake tower, Newlands Project. Proposed by water district.									
Nevada	2	PROJECT NEWLANDS	RESERVOIR	Transferred	Rec. 2012-2-DÂ and2012-2-E	D	\$ 200,000						\$ 200,000	\$ 200,000 *
Nevada	2	PROJECT	T CANAL	Transferred	Replace T-Line Headworks structure.	С	\$ 2,000,000						\$ 2,000,000	\$ 2,000,000 *
		NEWLANDS			Truckee Canal XM Project - replace 4 check structures and construct up to 12.7 miles of canal improvements, replace the gauge at Hazen, and install radial gates and automation at the									
Nevada	2	PROJECT	TRUCKEE CANAL	Transferred	Bango check structure.	A	\$ 150,000,000						\$ 150,000,000	\$ 150,000,000
Nevada	2	NEWLANDS PROJECT	TRUCKEE CANAL	Transferred	Refurbish or replace gates at Truckee Canal head works (9 total gates.	В	\$ 1,350,000						\$ 1,350,000	\$ 1,350,000 *
Nevada	2	NEWLANDS PROJECT	V CANAL	Transferred	Replace Headworks structure.	С	\$ 5,000,000						\$ 5,000,000	\$ 5,000,000 *
		NEWLANDS			Replace or install new water measurement devices on the									
Nevada	2	PROJECT WASHOE	V CANAL	Transferred	Newlands Project. Proposed construction by Water District.  Marble Bluff Dam and Fish Facility- Dredging of island and	D	\$ 258,000	1					\$ 100,000	\$ 100,000 *
Nevada	2	PROJECT	MARBLE BLUFF DAM	Reserved	bank stabilization upstream Marble Bluff Dam.	В	\$ 708,000	\$ 500,000						\$ 500,000
Nevada	2	WASHOE PROJECT	MARBLE BLUFF DAM	Reserved	Chip seal for entrance road to Marble Bluff Dam and Fish Facility	D	\$ 400,000	\$ 400,000						\$ 400,000 *
Nevada	2	WASHOE PROJECT	MARBLE BLUFF FISH FACILITY and PYRAMID LAKE FISHWAY	Reserved	Recoating of all metalic surfaces and features associated with Marble Bluff Fish Facility and heavy metal abatement	C	\$ 3,862,000			\$ 1,715,200				\$ 1,715,200
revada	-		MARBLE BLUFF FISH	Reserved	ivariote Built Fish Facility and neavy metal abatement		3,302,000			\$ 1,713,200				1,713,200
Nevada	2	WASHOE PROJECT BOULDER	FACILITY and PYRAMID LAKE FISHWAY	Reserved	Fish Lock Hoist Replacement	В	\$ 1,650,000	\$ 1,650,000						\$ 1,650,000 *
Nevada	3	CANYON PROJECT	Hoover Dam Waterways and Dams	Reserved	Penstock Main and Lateral Spot Coating	C	\$ 16,650,000				\$ 16,650,000			\$ 16,650,000 *
Nevada	3	BOULDER CANYON PROJECT	Hoover Dam Waterways and Dams	Reserved	Drum gate overhaul	В	\$ 14,600,000				\$ 14,600,000			\$ 14,600,000 *
		BOULDER CANYON	Hoover Dam Waterways and											
Nevada	3	PROJECT	Dams	Reserved	Spillway Delamination Repair	С	\$ 5,000,000				\$ 5,000,000			\$ 5,000,000 *
		BOULDER CANYON	Hoover Dam Waterways and											
Nevada	3	PROJECT	Dams	Reserved	Unit Controls Life Cycle Replacements	С	\$ 3,410,000				\$ 3,380,000			\$ 3,380,000 *
Nevada	3	BOULDER CANYON PROJECT	Hoover Dam Waterways and Dams	Reserved	Spillway, Penstock & Dam Abutment Drain Cleaning	С	\$ 3,000,000				\$ 3,000,000			\$ 3,000,000 *
		BOULDER CANYON	Hoover Dam Waterways and											
Nevada	3	PROJECT BOULDER	Dams	Reserved	Tail Bay Stop Logs (Coating)	D	\$ 2,746,000				\$ 1,950,000			\$ 1,950,000 *
		CANYON	Hoover Dam Waterways and											
Nevada	3	PROJECT BOULDER	Dams	Reserved	Nevada Spillway Radial gate Repair	Е	\$ 650,000				\$ 650,000			\$ 650,000 *
Nevada	3	CANYON PROJECT	Hoover Dam Waterways and Dams	Reserved	Additional Tail Bay Stop Log	D	\$ 642,000				\$ 642,000			\$ 642,000 *
Nevada	3	BOULDER CANYON PROJECT	Hoover Dam Waterways and Dams	Reserved	Flow Meter Replacement	В	\$ 1,418,000				\$ 344,000			\$ 344,000 *
		BOULDER CANYON												
Nevada	3	PROJECT BOULDER CANYON	HOOVER- Visitor Center	Reserved	Visitor Center Switchgear Replacement	В	\$ 2,750,000				\$ 2,750,000			\$ 2,750,000 *
Nevada	3	PROJECT BOULDER	HOOVER- Visitor Center	Reserved	Escalator Replacement	D	\$ 1,150,000				\$ 1,150,000			\$ 1,150,000 *
Nevada	3	CANYON PROJECT BOULDER	HOOVER- Visitor Center	Reserved	Monument Plaza Restoration	D	\$ 300,000				\$ 20,000			\$ 20,000 *
Nevada	3	CANYON PROJECT	HOOVER- Visitor Center	Reserved	Visitor Center Refurbishment - Exhibit Level	D	\$ 300,000				\$ 20,000			\$ 20,000 *
Nevada	3	BOULDER CANYON PROJECT	HOOVER- WAREHOUSE AREA, BLDG. 350	Reserved	Warehouse Garage Sewer Line	D	\$ 160,000				\$ 160,000			\$ 160,000 *
							,			•		•		

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										Fundir	g Categories*			1
									Appropriated			Non-Federal Financia	g	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		BOULDER							5					
		CANYON	HV Bldngs and Grnds											
Nevada	3	PROJECT BOULDER	(Buildings listed separately)	Reserved	Fire Piping Plan	C	\$ 10,161,000				\$ 8,110,000			\$ 8,110,000 *
		CANYON	HV Bldngs and Grnds											
Nevada	3	PROJECT	(Buildings listed separately)	Reserved	By-Pass Bridge Restrooms	С	\$ 3,985,000				\$ 3,985,000			\$ 3,985,000 *
		BOULDER												
	3	CANYON	HV Bldngs and Grnds		W. J. W. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. W. J. W. J. W. J. W. J. W. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. J. W. W. J. W. J. W. J. W. J. W. W. J. W. J. W. J. W. J. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. W. J. W. W. W. J. W. W. W. W. W. W. W. W. W. W. W. W. W.	С								
Nevada	3	PROJECT BOULDER	(Buildings listed separately)	Reserved	Highway Maintenance - Old Route 93	C	\$ 3,000,000				\$ 3,000,000			\$ 3,000,000 *
		CANYON	HV Bldngs and Grnds											
Nevada	3	PROJECT	(Buildings listed separately)	Reserved	Lower Portal Road Erosion Control and Slope Stabilization	A	\$ 3,000,000				\$ 3,000,000			\$ 3,000,000 *
		BOULDER												
Nevada	2	CANYON PROJECT	HV Bldngs and Grnds (Buildings listed separately)	Reserved	Replace wastewater treatment facility	С	\$ 3,070,000				\$ 2,900,000			\$ 2,900,000 *
ivevaua	,	BOULDER	(Buildings listed separatery)	Reserved	Replace wastewater treatment facility		3 3,070,000				\$ 2,900,000			\$ 2,900,000
		CANYON	HV Bldngs and Grnds											
Nevada	3	PROJECT	(Buildings listed separately)	Reserved	Rock Fall Mitigation	C	\$ 2,500,000				\$ 2,500,000			\$ 2,500,000 *
		BOULDER CANYON	INVIDIT TO T											
Nevada	3	PROJECT	HV Bldngs and Grnds (Buildings listed separately)	Reserved	Central Section 7th & 8th Floor Renovation	D	\$ 2,000,000				\$ 2,000,000			\$ 2,000,000 *
11014444	,	BOULDER	(Danaings instea separatery)	reserved	Contain Section 7 in Ce our Floor Renovation	-	2,000,000				2,000,000			2,000,000
		CANYON	HV Bldngs and Grnds					I			l			[
Nevada	3	PROJECT	(Buildings listed separately)	Reserved	Guardrail Safety Improvements	В	\$ 1,470,000	-			\$ 1,360,000			\$ 1,360,000 *
		BOULDER CANYON	HV Bldngs and Grnds											
Nevada	3	PROJECT	(Buildings listed separately)	Reserved	Control Center Renovation	D	\$ 500,000	I			\$ 500,000			\$ 500,000 *
		BOULDER												
		CANYON	HV Bldngs and Grnds											
Nevada	3	PROJECT BOULDER	(Buildings listed separately)	Reserved	Hoover Facilities Fire Code Compliance Upgrades	С	\$ 700,000				\$ 500,000			\$ 500,000 *
		CANYON	HV Bldngs and Grnds											
Nevada	3	PROJECT	(Buildings listed separately)	Reserved	Water Plant and Wastewater Plant Controls Replacement	D	\$ 400,000				\$ 400,000			\$ 400,000 *
		BOULDER												
	_	CANYON	HV Bldngs and Grnds			_								
Nevada	3	PROJECT BOULDER	(Buildings listed separately)	Reserved	Upgrade CISCO ONS 15454	D	\$ 310,000		-		\$ 310,000			\$ 310,000 *
		CANYON												
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	Generator Set-up (GSU) Transformers Maintenance	C	\$ 24,600,000				\$ 22,850,000			\$ 22,850,000 *
		BOULDER												
N. 1	2	CANYON	TIVE OF S	D 1	OF LOVE FIRE ART	C	6 12.050.000				£ 12.200.000			6 12 200 000 *
Nevada	3	PROJECT BOULDER	HV Plant Maintenance	Reserved	Cylinder Gate Stem Evaluation & Replacement	C	\$ 13,950,000				\$ 12,200,000			\$ 12,200,000 *
		CANYON												
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	Power Plant Piping Management Plan	D	\$ 11,375,000				\$ 10,425,000			\$ 10,425,000 *
		BOULDER CANYON												
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	Crane inspection and repair	C	\$ 8,550,000				\$ 7,900,000			\$ 7,900,000 *
rvevada	,	BOULDER	11 v 1 iant ivianichance	Reserved	Crane inspection and repair		3 0,550,000				3 7,200,000			3 7,700,000
		CANYON												
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	Rebuild and Replace Generators Coolers	D	\$ 7,342,000	-			\$ 6,814,000			\$ 6,814,000 *
		BOULDER CANYON						I			l			[
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	480 Volt switchgear replacement	С	\$ 5,761,000	I			\$ 4,640,000			\$ 4,640,000 *
		BOULDER			<u> </u>									
		CANYON						I						
Nevada	3	PROJECT BOULDER	HV Plant Maintenance	Reserved	Partial Discharge Monitors	С	\$ 4,000,000	<del>                                     </del>	<b></b>		\$ 4,000,000			\$ 4,000,000 *
		CANYON						1						
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	A9 Wicket Gates and Facing Plates	D	\$ 4,300,000				\$ 3,550,000			\$ 3,550,000 *
		BOULDER												
Nevada	3	CANYON PROJECT	HV Plant Maintenance	Reserved	Butterfly Valve Recoating	D	\$ 2,512,500	I			\$ 2,512,500			\$ 2,512,500 *
ivevaud	,	BOULDER	11 v 1 iant ivianitenance	Reserved	Dutterny varye recoating	ь	2,312,300	<b>-</b>			2,312,300			2,312,300
		CANYON						I			l			[
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	Central HVAC Replacement (7th Floor)	D	\$ 990,000	ļ			\$ 990,000			\$ 990,000 *
		BOULDER CANYON						I			l			[
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	N3 Rotor Repair	С	\$ 1,107,000	I			\$ 857,000			\$ 857,000 *
. ve vada	,	BOULDER		ACCEPTED.	Asspain		- 1,107,000	<b>†</b>			2 057,000	1		- 057,000
		CANYON						I			l			[
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	A3 Stator Re-Wedge	С	\$ 800,000	<b></b>			\$ 800,000			\$ 800,000 *
		BOULDER CANYON						1						
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	N3 Stator Re-Wedge	С	\$ 800,000				\$ 800,000			\$ 800,000 *
		BOULDER			g	1	,300	1	1		,	İ		
		CANYON	L	_				I			L			
Nevada	3	PROJECT	HV Plant Maintenance	Reserved	Penstock Lateral Tunnels - Safety Doors	C	\$ 750,000				\$ 750,000			\$ 750,000 *

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										Fundin	g Categories*			
	1		T		T	150.00		D 1 4	Appropriated			Non-Federal Financin	g	1
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project BOULDER	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		CANYON												
Nevada	3	PROJECT BOULDER	HV Plant Maintenance	Reserved	A2 Stator - Epoxy Steel Laminate	С	\$ 600,000				\$ 600,000			\$ 600,000 *
		CANYON												
Nevada	3	PROJECT BRANTLEY	HV Plant Maintenance	Reserved	Hazardous Noise Abatement Plan Rehab or replace RV dump station near entrance to park.	С	\$ 214,000				\$ 50,000			\$ 50,000 *
New Mexico	2	PROJECT	Brantley Recreation Area	Transferred	Project is in planning at this stage.	В	\$ 750,000						\$ 75,000	\$ 75,000
N M :	2	CARLSBAD PROJECT		T. C. I	D. C. I. I. I. P. C. d. C. P. L. C. C.	С	\$ 1,000,000						\$ 750,000	\$ 750,000 *
New Mexico	2	PROJECT	Avalon Dam and Reservoir	Transferred	Repair and rehabilitate the two cylinder river gates.  Sumner East Side Road and Bridge Repairs (Includes a	C	\$ 1,000,000						\$ /50,000	\$ /50,000 *
					constuction of a new temporary road to provide access to east									
New Mexico	2	CARLSBAD PROJECT	Lake Sumner Recreation Area	Transferred	side of reservoir until historic bridge repairs can be funded and complete.)	A	\$ 1,000,000	\$ 250,000					s 500,000	s 750,000 *
		CARLSBAD												
New Mexico	2	PROJECT	Lake Sumner Recreation Area	Transferred	Rehabilitate Sumner Spillway Bridge Accessibility (ADA, ABA) upgrades at Sumner Lake State Park	С	\$ 600,000	\$ 200,000		\$ 400,000				\$ 600,000 *
		CARLSBAD			(campsites, reservoir access, fishing piers, boat ramp, toilets,									
New Mexico	2	PROJECT CARLSBAD	Lake Sumner Recreation Area	Transferred	etc.).  Perform a complete rehabilitation of the three spillway radial	A	\$ 100,000	\$ 50,000					\$ 50,000	\$ 100,000 *
New Mexico	2	PROJECT	Sumner Dam and Reservoir	Transferred	gates.	A	\$ 5,000,000	\$ 4,000,000						\$ 4,000,000 *
New Mexico	2	CARLSBAD PROJECT	Sumner Dam and Reservoir	Transferred	Sumner SH 203 Bridge Investigation & Design	С	\$ 375,000			\$ 375,000				\$ 375,000 *
New Mexico		RIO GRANDE	Summer Dam and Reservon	Transferred	Summer 311 203 Bridge investigation & Design		3 373,000			\$ 373,000				3 373,000
New Mexico	2	PROJECT RIO GRANDE	Caballo Dam and Reservoir	Reserved	Rio Grande - Bonita Lateral Upgrade (caballo)  Caballo Riverside Road & parking lot re-asphalt (at Caballo	D	\$ 290,000					\$ 250,000		\$ 250,000 *
New Mexico	2	PROJECT	Caballo Recreation Area	Transferred	Lake State Park).	С	\$ 1,070,000						\$ 1,070,000	\$ 1,070,000 *
N M :	2	RIO GRANDE	GI II D	T. C. I	Caballo Lake State Park water treatment & building upgrades.	C	6 220.000	6 110,000					£ 110,000	6 220,000
New Mexico	2	PROJECT RIO GRANDE	Caballo Recreation Area	Transferred	Regulatory requirement	C	\$ 220,000	\$ 110,000					\$ 110,000	\$ 220,000
New Mexico	2	PROJECT	Caballo Recreation Area	Transferred	ADA compliant upgrades at Caballo Lake State Park	В	\$ 150,000	\$ 75,000					\$ 75,000	\$ 150,000 *
New Mexico	2	RIO GRANDE PROJECT	Caballo Recreation Area	Transferred	Expand and renovate the existing Visitor Center.	С	\$ 1,000,000	\$ 72,433					\$ 50,000	\$ 122,433
		RIO GRANDE												
New Mexico	2	PROJECT	Elephant Butte Power Facility	Reserved	Rio Grande - Unit Rewind	D	\$ 6,100,000	\$ 6,100,000						\$ 6,100,000 *
New Mexico	2	RIO GRANDE PROJECT	Elephant Butte Power Facility	Reserved	Powerplant Switchyard Relocation and Construction	A	s 6,545,230	\$ 2,300,000						\$ 2,300,000
	-	RIO GRANDE												
New Mexico	2	PROJECT RIO GRANDE	Elephant Butte Power Facility	Reserved	Governor Hydraulic System Replacement	D	\$ 830,000	\$ 830,000						\$ 830,000 *
New Mexico	2	PROJECT	Elephant Butte Power Facility	Reserved	Construction of Solar Covered Parking facility	E	\$ 350,000	\$ 350,000						\$ 350,000 *
New Mexico	2	RIO GRANDE PROJECT	Elephant Butte Power Facility	Reserved	Installation of Powerplant HVAC System	С	\$ 340,000	\$ 340,000						\$ 340,000 *
New Mexico	2	RIO GRANDE	Elephant Butte Power Facility	Reserved	instanation of Powerpiant HVAC System	C	\$ 340,000	3 340,000						3 340,000
New Mexico	2	PROJECT	Elephant Butte Power Facility	Reserved	Rio Grande - Power Plant Roof Repair	C	\$ 250,000	\$ 250,000						\$ 250,000 *
New Mexico	2	RIO GRANDE PROJECT	Elephant Butte Power Facility	Reserved	Rio Grande - Acquisition of spare Power Plant Guide Bearing	С	\$ 160,000	\$ 160,000						\$ 160,000 *
	_	RIO GRANDE			Powerplant Emergency Generator - current emergency									
New Mexico	2	PROJECT	Elephant Butte Power Facility	Reserved	generator is reaching life expectancy  Lakeshore Drive Rd. Rehabilitation at arroyo crossings, culverts	С	\$ 100,000	\$ 100,000						\$ 100,000 *
		RIO GRANDE	Elephant Butte Recreation		need replacing with larger sized culverts in 3 locations and									
New Mexico	2	PROJECT	Area	Transferred	bridges need to be built in 2 locations.  Elephant Butte Historic District (Paseo del Rio & Damsite)	A	\$ 12,685,000			\$10,708,360			\$ 840,000	\$ 11,548,360
		L			updates including, but not limited to, public drinking water									
New Mexico	2.	RIO GRANDE PROJECT	Elephant Butte Recreation Area	Transferred	system, electric upgrades, roof repairs/replacement, building renovations, ADA/ABA, etc.	A	\$ 5,000,000	\$ 4,000,000						\$ 4,000,000 *
		RIO GRANDE	Elephant Butte Recreation		Rehabilitation of Damsite Historic District interior roads and									
New Mexico	2	PROJECT	Area	Transferred	parking lots.  EBLSP Phase 1 Sewer Connection- Install new RV dump	В	\$ 2,940,000	\$ 2,940,000						\$ 2,940,000 *
					station (3 lanes) at entrance to the park, connected directly to the									
New Mexico	2	RIO GRANDE PROJECT	Elephant Butte Recreation Area	Transferred	City of Elephant Butte sewage treatment system. This includes site grading, lift station, etc.	В	\$ 1,110,000	\$ 555,000					\$ 555,000	\$ 1,110,000 *
i vew iviexico		RIO GRANDE	Elephant Butte Recreation	riansierred	one graung, mi station, etc.	В	1,110,000	000,000 ب					000,000 ب	g 1,110,000 *
New Mexico	2	PROJECT	Area	Transferred	Lodge and Restaurant Roof Replacement Phase 2 Sewer Connection- Connect comfort stations on Ridge	С	\$ 700,000	\$ 700,000						\$ 700,000 *
		RIO GRANDE	Elephant Butte Recreation		Phase 2 Sewer Connection- Connect comfort stations on Ridge Road to main sewer line coming into park (the main sewer line,									
New Mexico	2	PROJECT	Area	Transferred	Phase 1 Sewer Connection- UC-AAO-0023-26	С	\$ 500,000	\$ 250,000					\$ 250,000	\$ 500,000 *
New Mexico	2	RIO GRANDE PROJECT	Elephant Butte Recreation Area	Transferred	Rehabilitaiton of Holding House Hatchery area (aka Paseo del Rio)	A	\$ 400,000	\$ 400,000						s 400,000 *
	_	RIO GRANDE	Elephant Butte Recreation											
New Mexico	2	PROJECT RIO GRANDE	Area	Transferred	Remove & replace Quail Run comfort station with vault toilets.	С	\$ 200,000	\$ 100,000					\$ 100,000	\$ 200,000 *
New Mexico	2	PROJECT	Leasburg Diversion Dam	Transferred	Rio Grande - Leasburg Dam Trash Rack Upgrade	D	\$ 2,000,000						\$ 2,000,000	\$ 2,000,000 *
New Mexico	,	RIO GRANDE PROJECT	Leasburg Recreation Area	Transferred	Replace failed septic system and leach field for RV dump station and comfort station near visitor center.	A	s 520,000						\$ 260,000	\$ 260,000
		RIO GRANDE	8											
New Mexico	2	PROJECT	Leasburg Recreation Area	Transferred	Leasburg Dam State Park River/Day Area Road Rehabilition.	A	\$ 185,000	\$ 92,500					\$ 92,500	\$ 185,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

No.   Part											Fundir	ng Categories*			-	
Company   Supplies			1		I		Lanen		D 1	Appropriated			Non-Federal Financi	ng		
March   Marc		Congressional	Authorized					Fetimated Total		Reclamation Dam	Other	Power	Pasarvad Works	Operating		Fetimated 30-Veer
March   Marc	State			Asset Name		Brief Description of Work Needed										
March   Marc			RIO GRANDE						·							
No. March   2   000   100	New Mexico	2		Leasburg Recreation Area	Transferred		В	\$ 243,100						\$ 56,5	549 \$	56,549
No. Marie   7   \$10.00 C   1   1.00 C   1	New Mexico	2		Mesilla Diversion Dam	Transferred		С	s 500,000						s 500.0	000 8	500,000 *
No. No. No. No. No. No. No. No. No. No.																
Dec Dec Dec Dec Dec Dec Dec Dec Dec Dec	N M :	2		Danaha Amara Diagnai an Dana	T. C. 1			6 500,000						6 500.0		500,000
No. March   2   Principle   Section Section   Treatment   Treatm	New Mexico	2		Percha Arroyo Diversion Dam	Transferred		C	\$ 500,000						\$ 500,0	000 3	500,000  *
No. Mode 2 O OST No. Security Account Account Company of the Compa	New Mexico	2	PROJECT	Percha Recreation Area	Transferred		C	\$ 200,000	\$ 100,000					\$ 100,0	000 \$	200,000 *
Section   Sect																
Note   Note	New Mexico	3			Transferred		C	\$ 5,000,000	\$ 2,500,000			-		\$ 2,500,0	100 3	5,000,000 *
No. Markete   3   Diff   Remarket Notes   Tentions   Te	New Mexico	3			Transferred		A	\$ 3,156,800						\$ 3,156,8	800 \$	3,156,800
CRP_NAVAD   Note   Record No. Mail   Section 1.0   Secti																
No. Medica   3   SMT   Bearston Area   Turnfront   Smith Sharp Mich Sharp Control (No. Michael Sharp)   Smith Sharp Shar	New Mexico	3			Transferred	Replacement	С	\$ 3,000,000	\$ 1,500,000				-	\$ 1,500,0	000 \$	3,000,000  *
No.   March   No.   Sept.   No.	New Mexico	3			Transferred	Navajo Lake State Park Visitor Center	D	\$ 2,000,000	\$ 1,000,000					\$ 1,000,0	000 \$	2,000,000 *
Section   Process   Proc																
Sept   Navige   Sept   Navige   Sept   Sep																
Note   March   Care   Part   March   Care   Part   March   Care   Part   March   Care   Part   March   Care   Part   Part   Care   Part   Care   Part   Care   Part   Care   Part   Part   Care   Part   Care   Part   Part   Care   Part   Pa			CRSP, NAVAJO	Navajo Reservoir New Mexico												
New Mate   New Mate	New Mexico	3	UNIT		Transferred	recreation vessels.	В	\$ 1,900,000	\$ 950,000					\$ 950,0	000 \$	1,900,000 *
Commission   Com									1				ĺ			
Sept. National   Sept									1				ĺ			] [
New Mexico   3   CRET   New York (						partners to prevent the introduction and spread of ANS though										
No. Medica   3   NO.TT   Secretion Area   Transferred   Memoracy Year   December   Dec	New Mexico	3			Transferred	recreation vessels.	В	\$ 1,800,000	\$ 900,000					\$ 900,0	000 \$	1,800,000 *
Section   Sect	New Mexico	3			Transferred		D	\$ 1.800.000	\$ 900,000					s 900.0	000 5	1.800.000 *
New Mexico   3   S.F. NAVAD   Non-pip Reservoir New Mexico   New Mexico   3   S.F. NAVAD   Non-pip Reservoir New Mexico   New Mexico   3   S.F. NAVAD   Non-pip Reservoir New Mexico   New Mexico   3   S.F. NAVAD   Non-pip Reservoir New Mexico   New Mexico   3   S.F. NAVAD   Non-pip Reservoir New Mexico   New Mexico   3   S.F. NAVAD   Non-pip Reservoir New Mexico   New Mexico   3   S.F. NAVAD   Non-pip Reservoir New Mexico   New M				Navajo Reservoir New Mexico		Navajo Lake State Park Maintenance Yards/Shops -										
New Medica   Care   New Mark   Care	New Mexico	3	UNIT	Recreation Area	Transferred		D	\$ 1,000,000	\$ 500,000					\$ 500,0	000 \$	1,000,000 *
No. Medical   S.   UNIT   Society No. Medical   S.   Society No. Medical			CRSP. NAVAJO	Navaio Reservoir New Mexico												
New Mexico   3   ONT   Secretion Area   Tameford   Secretion Area   Tameford   Secretion Area   Tameford   Secretion Area   Tameford   Secretion Area   Secre	New Mexico	3			Transferred	Timber/Forestry Management)"	C	\$ 1,000,000	\$ 500,000					\$ 500,0	000 \$	1,000,000 *
See   See																0.50.000
New Mexico   3	New Mexico	3			Transferred	Juan River Recreation Area, Navajo Lake State Park	C	\$ 950,000	\$ 950,000						- 1	950,000 *
New Mexico   3   UNIT   New Mexico   3   UNIT   New Mexico   5   UNIT   New	New Mexico	3	UNIT	Recreation Area	Transferred	Navajo Lake State Park - Bolack Day Use Areas and Trails	D	\$ 500,000	\$ 250,000					\$ 250,0	000 \$	500,000 *
CRSF, NAVAID   None Reservoir New Mexico   S   CRSF, NAVAID   None Res						N THE COURT OF THE STATE OF THE	,									
New Mexico   3	New Mexico	3			Transferred	Navajo Lake State Park - San Juan Day Use Areas and Trails	D	\$ 500,000	\$ 250,000					\$ 250,0	000 5	500,000 *
New Mexico   3	New Mexico	3	UNIT	Recreation Area	Transferred	Navajo Lake State Park Juniper CG	D	\$ 500,000	\$ 250,000					\$ 250,0	000 \$	500,000 *
New Mexico   CRSP, NAVAIO   Navigo Reservoir New Mexico   New Mexico   CRSP, NAVAIO   Navigo Reservoir New Mexico   New Mexico   S   UNIT   Repression Area   Navigo Lake State Park Sim Mess CG   D   S   500,000   S   250,000	N M :	2			T. C. 1	N I I G D I D		6 500,000	6 250,000					6 250.0		500,000
New Mexico   3	New Mexico	3			Transferred	Navajo Lake State Park Pine CG	Б	\$ 500,000	\$ 250,000					\$ 250,0	100 3	500,000 *
New Mexico   3   UNIT   Receptation Area   Transferred   Navajo Lake State Pat Kims Meas CG   D   S   50,000   S   250,000   S	New Mexico	3			Transferred	Navajo Lake State Park Pinon CG	D	\$ 500,000	\$ 250,000					\$ 250,0	000 \$	500,000 *
New Mexico   CRSP, NAVAJO   New Mexico   CRSP, NAVAJO   New Mexico   Accordance   Cost share finding for Cottonwood Cangground restroom removation, San Juan River Recreation Area, Navajo Lake State   Park   Cost share finding for Cottonwood Cangground restroom removation, San Juan River Recreation Area, Navajo Lake State   Park   Cost share finding for Cottonwood Cangground restroom removation, San Juan River Recreation Area, Navajo Lake State   Park   Cost share finding for Cottonwood Cangground restroom removation, San Juan River Recreation Area, Navajo Lake State   Park   Cost share finding for Cottonwood Cangground restroom removation, San Juan River Recreation Area, Navajo Lake State   Park   Cost share finding for Cottonwood Cangground vater system microwenens, San Juan River Recreation Area, Navajo Lake State   Park   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Park   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Park   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Cost share finding for Government Camp water system microwenens, San Juan River Recreation Area, Navajo Lake State   Cost share finding for							,									
CRSP, NAVAIO   CRSP, NAVAIO   CRSP, NAVAIO   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   Navajo Reservoir New Mexico   Navajo Reservoir New Mexico   Navajo Reservoir New Mexico   CRSP, NAVAIO   Navajo Reservoir New Mexico   Nava	New Mexico	3	UNII	Recreation Area	Transferred		D	\$ 500,000	\$ 250,000			-		\$ 250,0	100 \$	500,000 *
New Mexico   3						Cost share funding for Cottonwood Campground restroom										
CRSP, NAVAJO   Navajo Reservoir New Mexico   Recreation Area   Transferred   Cost share funding for Cather Park   Cost s							_									
New Mexico   3   UNIT   Recreation Area   Transferred   River Recreation Area   Navajo Lake State Park   C   S   325,000   S   162,500   S	New Mexico	3			Transferred		С	\$ 400,000	\$ 200,000			-		\$ 200,0	000 5	400,000  *
New Mexico   CRSP, NAVAJO   Navajo Reservoir New Mexico   Improvement, San Juan River Recreation Area, Navajo Lake   C   S   200,000   S   2	New Mexico	3			Transferred	River Recreation Area, Navajo Lake State Park	С	\$ 325,000	\$ 162,500					\$ 162,5	500 \$	325,000 *
New Mexico   3																
Casp, NAVAJO   Navajo Reservoir New Mexico   New Mexico   New Mexico   S   UNIT   Recreation Area   Transferred   Cost share funding for Cottonwood Campround expansion + Cost share funding for Cottonwood Campround expansion + Cost share funding for Cottonwood Campround expansion + Cost share funding for Cottonwood Campround expansion + AD sites, San Juan River Recreation Area, Navajo Lake State   New Mexico   S   So,000   S   So	New Mexico	3			Transferred		C	\$ 200,000	\$ 200,000						9	200.000 *
New Mexico   3	Tien mexico		0.11.	recordation / nea	Transferred			200,000	200,000							200,000
CRSP, NAVAJO   Navajo Reservoir New Mexico   S   UNIT   Recreation Area   Transferred   Park   CRSP, NAVAJO   Navajo Reservoir New Mexico   S   S   S   S   S   S   S   S   S							_								١.	
CRSP, NAVAJO	New Mexico	3	UNIT	Recreation Area	Transferred		С	\$ 75,000	\$ 75,000				-		- 15	75,000 *
New Mexico   3			CRSP, NAVAJO	Navajo Reservoir New Mexico					1				ĺ			] [
New Mexico   3	New Mexico	3			Transferred		С	\$ 50,000	\$ 50,000				ļ		5	50,000 *
CRSP, NAVAJO	New Mexico	3		3	Transferred		0	\$ 50,000	\$ 50,000				ĺ			50 000 *
New Mexico   3   UNIT   Recretion Area   Transferred   Maintenance Yards   D   S   10,000   S   25,000   S		,	CRSP, NAVAJO									t e	1		+	
New Mexico   3   PROJECT   Gravity Extension Lateral   Transferred   Lateral   B   S   500,000   S   490,000   \$	New Mexico	3	UNIT	Recreation Area	Transferred		D	\$ 100,000	\$ 25,000				ļ	\$ 25,0	000 \$	50,000 *
HAMMOND   Hammond District Shop and   PROJECT   Office   Transferred   Automation improvements and website   E   \$ 450,000   \$ 300,000   \$ \$ 300,000   \$ \$ \$ 300,000   \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	New Mexico	3		Gravity Extension Lateral	Transforred		B	\$ 500,000	1				ĺ	\$ 400.0	000	490,000 *
New Mexico   3   PROJECT   Office   Transferred   Automation improvements and website   E   S   450,000   S   30	THE W INTERICO	,			ranstrited	- Lauren	ь	500,000	<b>†</b>			t		J 470,0	,50 1	470,000
New Mexico         3         PROJECT         Hammond Diversion Dam         Transferred repair/behabilitation         C         \$ 508,000         \$ 508,	New Mexico	3			Transferred	Automation improvements and website	E	\$ 450,000						\$ 300,0	000 \$	300,000 *
HAMMOND	Naw Mani	,		Hammond Diversion Den-	Transf			e ====================================	1				ĺ	e 500.0	ا ۱۰۰	500 000 *
New Mexico         3         PROJECT         Hammond Main Canal         Transferred highline canal (Main)         B         \$ 1,000,000         \$ 950,000         \$ 950,000         \$ 950,000         \$ 950,000         \$ 950,000         \$ 300,0	New Mexico	,		Hammond Diversion Dam	ransierred			\$ 508,000	<b>-</b>					o 308,0	700 3	308,000 *
New Mexico         3         PROJECT         Hammond Main Canal         Transferred         Clean and repair siphons on main canal         C         \$ 300,000         \$ 300,000         \$ 300,000         \$ 300,000         \$ 300,000         \$ 300,000	New Mexico	3	PROJECT	Hammond Main Canal	Transferred		В	\$ 1,000,000						\$ 950,0	000 \$	950,000 *
HAMMOND	Naw Mari	2		Hammond Main Const	Transforms 3	Clean and rangis sinhans on main conel		\$ 200,000	1				ĺ	g 200.0	ا ۵۰۰	200.000 *
	inew iviexico	,		manimonu iviain Canai	riansterred	erean and repair sipnons on matri canar	, c	300,000	<b>†</b>				<b>+</b>	φ 300,0	700 3	300,000 *
	New Mexico	3		Hammond Main Canal	Transferred	Safety improvements/fencing/weed racks	D	\$ 150,000	<u> </u>					\$ 150,0	000 \$	150,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	g Categories*			
	1	1	1	Transferred /	T	MR&R		Reclamation	Appropriated			Non-Federal Financin	g	1
	Congressiona	Authorized		Reserved		Categorization	Estimated Total	<b>Excluding Dam</b>	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project HAMMOND	Asset Name	Works	Brief Description of Work Needed  Armenta Pumping Plant structure roofing and insulation repair	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
New Mexico	3	PROJECT	Hammond Pumping Plant	Transferred	Armenta Pumping Plant structure rooting and insulation repair due to aging structure	E	\$ 231,000						\$ 231,000	\$ 231,000 *
		HAMMOND												
New Mexico	3	PROJECT HAMMOND	Main Drains	Transferred	Rehabilitate and repair project drains and open channels	E	\$ 250,000						\$ 250,000	\$ 250,000 *
New Mexico	3	PROJECT	West Highline Lateral	Transferred	Major rehabilitation and canal lining for main canal and west highline canal (West Highline)	В	\$ 1,000,000						\$ 975,000	\$ 975,000 *
		HAMMOND												
New Mexico	3	PROJECT	West Highline Lateral	Transferred	Clean and repair siphons on west highline canal	С	\$ 150,000						\$ 150,000	\$ 150,000 *
					The dam safety issues are associated with erosion potential failure modes at both the service spillway and auxiliary spillway									
					as well as internal erosion potential failure modes through the									
		MIDDLE RIO			embankment and left abutment of the dam. The proposed									
New Mexico	3	GRANDE PROJECT	El Vado Dam and Reservoir	Transferred	modifications include the installation of an upstream liner, a grout curtain, and construction of a new spillway.	A	s 111,000,000		\$ 57,285,000					\$ 57,285,000 *
Trew mexico		MIDDLE RIO	Di vado Dam ana receivor	Transferred	grout curtain, and constitution of a new spinway.		3 111,000,000		\$ 37,203,000					37,203,000
		GRANDE	ELV I D ID :		Repair damaged concrete at the base of the outlet works stilling basin to prevent additional damage.									
New Mexico	3	PROJECT MIDDLE RIO	El Vado Dam and Reservoir	Transferred	basin to prevent additional damage.	С	\$ 500,000					\$ 500,000		\$ 500,000 *
		GRANDE			Construct a new entrance station to better manage the park.									
New Mexico	3	PROJECT	El Vado Recreation Area	Transferred	Currently there is no official visitor contact point.	С	\$ 400,000	\$ 200,000					\$ 200,000	\$ 400,000 *
		UCRSP-SAN JUAN-CHAMA			Rio Chama Trail & Footbridge- relocate foot bridge, reroute trai to connect existing trail to new bridge and then back to existing	1		1						
New Mexico	3	PARTC PRJ	Heron Recreation Area	Transferred	trail.	В	\$ 972,000	\$ 846,000	<u>                                       </u>	<u></u>	<u> </u>	<u>                                       </u>	\$ 26,000	\$ 872,000
					Improvements to various campsites at Heron Lake State Park.									
		UCRSP-SAN			Campgrounds at Heron Lake total 11, including 9 developed (Willow Creek, Blanco, Island View, Salmon Run, Ridge Rock,			I	[					
		JUAN-CHAMA			Ponderosa, and La Laja) with 200 total sites, and 2 primitive									
New Mexico	3	PARTC PRJ	Heron Recreation Area	Transferred	(Rincon and Marina).	С	\$ 400,000	\$ 200,000					\$ 200,000	\$ 400,000 *
		UCRSP-SAN JUAN-CHAMA			Heron Dam Comfort Station structural fixes and overall									
New Mexico	3	PARTC PRJ	Heron Recreation Area	Transferred	inspections prior to re-opening	A	s 260,000	\$ 260,000						\$ 260,000
		UCRSP-SAN			Nambe Falls Dam - remove a large amount of woody debris on									
New Mexico	3	JUAN-CHAMA PARTC PRJ	Nambe Falls Dam and Reservoir	Transferred	and around the outlet works intake structure and the floating debris found in the forebay area.	C	\$ 250,000						\$ 250,000	\$ 250,000 *
New Mexico	3	UCRSP-SAN	Reservoir	Transferred	Renovate, replace and add facilities to day use and camping area	C	\$ 250,000						\$ 250,000	\$ 250,000
		JUAN-CHAMA			around reservoir including, but not limited to, shade shelters,									
New Mexico	3	PARTC PRJ WORKING	Nambe Falls Recreation Area Four Corner Construction	Transferred	vault toilets, boat ramp, potable water, etc.	A	\$ 500,000	\$ 500,000						\$ 500,000 *
New Mexico	3	CAPITAL FUND		Reserved	High efficiency window replacement for the entire building.	D	\$ 79,000	\$ 79,000						\$ 79,000 *
		P-S MBP,	DICKINSON DAM, Edward				,	,,,,,,,,						.,,,,,,,,
		DICKINSON	Arthur Patterson Lk (Heart Rvr											
North Dakota	1	UNIT P-S MBP.	HE) DICKINSON DAM, Edward	Reserved	Bascule Gate Recoating	Е	\$ 800,000	\$ 800,000			-			\$ 800,000 *
		DICKINSON	Arthur Patterson Lk (Heart Rvr											
North Dakota	1	UNIT	HE)	Reserved	Stilling Basin Concrete Overlay Repair	E	\$ 700,000	\$ 700,000						\$ 700,000 *
		P-S MBP, DICKINSON	DICKINSON DAM, Edward Arthur Patterson Lk (Heart Ryr											
North Dakota	1	UNIT	HE)	Reserved	Intake Pipeline Repair -300'	D	\$ 200,000	\$ 200,000						\$ 200,000 *
		P-S MBP,	DICKINSON DAM, Edward											
North Dakota	. 1	DICKINSON UNIT	Arthur Patterson Lk (Heart Rvr HE)	Reserved	Deicing Pumps and Pipe Replacement	D	\$ 150,000	\$ 150,000						\$ 150,000 *
Tiorui Dakota	1	P-S MBP,	DICKINSON DAM, Edward	reserved	beening 1 unips and 1 the replacement	ь	3 150,000	3 130,000						\$ 150,000
		DICKINSON	Arthur Patterson Lk (Heart Rvr											
North Dakota	1	UNIT P-S MBP,	HE) DICKINSON DAM, Edward	Reserved	Outlet Works Pipeline to City Golf Course Pumping Plant	E	\$ 100,000	\$ 100,000						\$ 100,000 *
		DICKINSON	Arthur Patterson Lk (Heart Rvr											
North Dakota	1	UNIT	HE)	Reserved	Bascule Gate Seal Replacement	D	\$ 70,000	\$ 70,000						\$ 70,000 *
		P-S MBP, DICKINSON	DICKINSON DAM, Edward Arthur Patterson Lk (Heart Rvr					1	[					
North Dakota	1	UNIT	HE)	Reserved	Outlet Works Discharge Valves Rehab/Replacement	D	\$ 50,000	\$ 50,000	[					\$ 50,000 *
		P-S MBP,	DICKINSON DAM, Edward				,							
Manda Dalar		DICKINSON	Arthur Patterson Lk (Heart Rvr	D '	Decords Cata Cill Hanton Danis account	D.	e 20.000	20.000						20,000
North Dakota	1	UNIT P-S MBP,	HE) DICKINSON DAM, Edward	Reserved	Bascule Gate Sill Heater Replacement	D	\$ 20,000	\$ 20,000						\$ 20,000 *
		DICKINSON	Arthur Patterson Lk (Heart Rvr					1	[					
North Dakota	1	UNIT	HE)	Reserved	Log Boom Maintenance	E	\$ 20,000	\$ 20,000	<b>_</b>		<u> </u>			\$ 20,000 *
		P-S MBP, DICKINSON	DICKINSON DAM, Edward Arthur Patterson Lk (Heart Rvr					1	[					
North Dakota	1	UNIT	HE)	Reserved	Emergency Power Generator	D	\$ 10,000	\$ 10,000	<u> </u>		L	<u> </u>		\$ 10,000 *
		P-S MBP,	DICKINSON DAM, Edward											
North Dakota		DICKINSON UNIT	Arthur Patterson Lk (Heart Rvr HE)	Reserved	Float Barrel Repair/Recoat	D	s 5,700	s 5,700	[					\$ 5,700 *
готи Бакова	<u> </u>	P-S MBP,	iii.)	Reserved	Front Darrer Repair/Recont	р.	3,700	3,700						5,700
		GARRISON	Four Bears Distribution				_	L						
North Dakota	1	DIVERSION UN P-S MBP.	System	Transferred	Replace coating on water stroage tank	E	\$ 100,000	\$ 100,000	<del>                                     </del>		<del>                                     </del>	-		\$ 100,000 *
		GARRISON	Garrison Diversion General					I	[					
North Dakota	1		Property, GDCD HQ	Transferred	Roof Replacement	D	\$ 50,000	\$ 50,000	1					\$ 50,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			
			1		1				Appropriated			Non-Federal Financin	ng	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		P-S MBP,												
North Dakota	1	GARRISON DIVERSION UN	Garrison Diversion General Property, GDCD HQ	Transferred	Window Replacement	E	\$ 50,000	\$ 50,000						\$ 50,000 *
North Dakota		P-S MBP,	Property, GDCD TIQ	Hanstelled	window Replacement	L	3 30,000	3 30,000						3 30,000
		GARRISON												
North Dakota	1	DIVERSION UN P-S MBP.	Geology Warehouse JAMESTOWN DAM.	Reserved	Replacement of metal siding and roof	Е	\$ 100,000	\$ 100,000						\$ 100,000 *
		P-S MBP, GARRISON	RESERVOIR (James River											
North Dakota	1	DIVERSION UN	ZE)	Reserved	Outlet Works Wingwall Replacement	D	\$ 1,500,000	\$ 1,500,000						\$ 1,500,000 *
		P-S MBP,	JAMESTOWN DAM,											
North Dakota		GARRISON DIVERSION UN	RESERVOIR (James River	Reserved	Spillway Wingwall Replacement	D	\$ 1,500,000	\$ 1,500,000						\$ 1,500,000 *
North Dakota	1	P-S MBP.	JAMESTOWN DAM,	Reserved	Spiliway wingwaii Replacement	Ъ	\$ 1,500,000	\$ 1,500,000						\$ 1,500,000
		GARRISON	RESERVOIR (James River											
North Dakota	1	DIVERSION UN	ZE)	Reserved	Relief Well Replacement	D	\$ 1,000,000	\$ 1,000,000						\$ 1,000,000 *
		P-S MBP, GARRISON	JAMESTOWN DAM, RESERVOIR (James River											
North Dakota	1	DIVERSION UN	ZE)	Reserved	Toe Drain Rehabilitation	D	\$ 750,000	\$ 750,000						\$ 750,000 *
		P-S MBP,	JAMESTOWN DAM,				,	,						,,,,,,,
		GARRISON	RESERVOIR (James River											
North Dakota	1	DIVERSION UN P-S MBP.	ZE) JAMESTOWN DAM,	Reserved	Outlet Works Stilling Basin Overlay	D	\$ 470,000	\$ 410,000						\$ 410,000 *
		GARRISON	RESERVOIR (James River											
North Dakota	1	DIVERSION UN	ZE)	Reserved	Realign West Access Road	E	\$ 250,000	\$ 250,000						\$ 250,000 *
		P-S MBP,	JAMESTOWN DAM,											
North Dakota	1	GARRISON DIVERSION UN	RESERVOIR (James River	Danamad	C-t- Bti	E	\$ 100,000	\$ 100,000						\$ 100,000 *
North Dakota	1	P-S MBP,	JAMESTOWN DAM,	Reserved	Gate Recoatings	E	\$ 100,000	\$ 100,000						\$ 100,000
		GARRISON	RESERVOIR (James River											
North Dakota	1	DIVERSION UN	ZE)	Reserved	Outlet Works Underdrain Rehabilitation	D	\$ 100,000	\$ 100,000						\$ 100,000 *
		P-S MBP, GARRISON	JAMESTOWN DAM, RESERVOIR (James River											
North Dakota	1	DIVERSION UN	ZE)	Reserved	Spillway Underdrain Rehabilitation	D	\$ 100,000	\$ 100,000						\$ 100,000 *
		P-S MBP,			,			,						
		GARRISON												
North Dakota	1	DIVERSION UN P-S MBP,	MCCLUSKY CANAL	Transferred	Road Gravel	E	\$ 500,000	\$ 500,000						\$ 500,000 *
		GARRISON												
North Dakota	1		MCCLUSKY CANAL	Transferred	Washed Aggregate	E	\$ 300,000	\$ 300,000						\$ 300,000 *
		P-S MBP,												
North Dakota	1	GARRISON	MCCLUSKY CANAL	Transferred	Radial Gate Recoating	E	\$ 200,000	\$ 200,000						\$ 200,000 *
North Dakota	,	P-S MBP.	MCCLUSKI CANAL	Hanstelled	Radiai Gate Recoating	ь	3 200,000	\$ 200,000						3 200,000
		GARRISON												
North Dakota	1	DIVERSION UN	McClusky OandM Center	Reserved	Replacement of roof	E	\$ 50,000	\$ 50,000						\$ 50,000 *
		P-S MBP, GARRISON												
North Dakota	1		New Rockford Field Office	Transferred	Roof Replacement	E	\$ 50,000	\$ 50,000						\$ 50,000 *
		P-S MBP,			•									
		GARRISON	N D 10 15 1100											
North Dakota	1	P-S MBP.	New Rockford Field Office	Transferred	Window Replacement	Е	\$ 50,000	\$ 50,000						\$ 50,000 *
		GARRISON												
North Dakota	1	DIVERSION UN	New Rockford Field Shop	Transferred	Replacement of metal siding and roof	E	\$ 50,000	\$ 50,000					]	\$ 50,000 *
		P-S MBP,	CNIANE CHEEN BURADBIO									<u> </u>	]	Ι Τ
North Dakota	1	GARRISON DIVERSION UN	SNAKE CREEK PUMPING PLANT (3 units)	Reserved	Pump Guide Bearings	E	s 750,000	\$ 750,000				1		\$ 750,000 *
Dunota	<u> </u>	P-S MBP,	` /		1	1	. ,,,,,,,,	. 750,000	Ì		i	1	1	. 750,000
		GARRISON	SNAKE CREEK PUMPING	1								1		
North Dakota	1	DIVERSION UN P-S MBP.	PLANT (3 units)	Reserved	Discharge Pipe Recoating	E	\$ 500,000	\$ 500,000			<b>.</b>	-	<b> </b>	\$ 500,000 *
		GARRISON	Spirit Lake Water Distribution									ĺ	]	
North Dakota	1	DIVERSION UN	System	Transferred	Replace existing high service pumps	E	\$ 300,000	\$ 300,000				<u> </u>		\$ 300,000 *
-		P-S MBP,	W							-			]	
North Dakota	1	GARRISON DIVERSION UN	White Shield Water Treatment Plant (200 gpm)	Transferred	Remove and replace existing flter media	F	s 300,000	\$ 300,000				ĺ	]	s 300,000 *
rorui Dakota	<u> </u>	P-S MBP,	т инт (200 криг)	riansterred	recinove and replace existing ther media	E	300,000	9 300,000	1		<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	φ 300,000 *
		GARRISON	White Shield Water Treatment	1								1		
North Dakota	1	DIVERSION UN	Plant (200 gpm)	Transferred	Update control sytsem for water treatment facility	E	\$ 150,000	\$ 150,000				ļ		\$ 150,000 *
			1		The dam safety issues are associated with internal erosion potential failure modes. Proposed modifications include							ĺ	]	
			Ì	I	construction of a filter and drainage system around the spillway						l	İ	]	
			HEART BUTTE DAM, LAKE		and outlet works conduit. The Corrective Action Study is							ĺ	]	
North Dakota	1	BUTTE UNIT	TSCHIDA	Reserved	underway.	A	\$ 22,000,000		\$ 18,410,000			ļ	ļ	\$ 18,410,000
North Dakota	1	P-S MBP, HEART BUTTE UNIT	HEART BUTTE DAM, LAKE TSCHIDA	Reserved	Stilling basin concrete repair		\$ 250,000	\$ 250,000				ĺ	]	\$ 250,000 *
130Iui Dakola	1	P-S MBP, HEART	ISCIIDA	Reserved	Suning basin concrete repair	A	250,000	250,000						230,000
North Dakota	1	BUTTE UNIT	Heart Butte Dam, Maint	Reserved	Replacement of metal siding and roof	C	\$ 50,000	\$ 50,000			<u> </u>	<u> </u>	<u> </u>	\$ 50,000 *
				_					_					

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*				
									Appropriated			Non-Federal Financi	ng		
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total Costs	Reclamation Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operati Partne		Estimated 30-Year MR&R Total
					Rehabilitate corroded metal-work in the river outlet works gate										
	2	MCGEE CREEK	MCGEE CREEK DAM,	TC C 1	chamber and shaft to include the ladder, vent pipe, electrical	D	s 250,000			s 21,375			6 22	.625	\$ 250.0
klahoma	2	PROJECT	DIKE, RESERVOIR	Transferred	conduits, ventilation system, and elevator.	D	\$ 250,000			\$ 21,375			\$ 22	,625	5 250,0
klahoma	2	MOUNTAIN PARK PROJECT	BRETCH DIVERSION CANAL	Transferred	Replace damaged sections of the concrete liner	D	S 1,000,000			s 147,200				.800	1,000.0
Kianoma	3	MOUNTAIN	CANAL	Transferred	Replace damaged sections of the concrete liner	D	\$ 1,000,000			\$ 147,200			\$ 85	,800	1,000,0
klahoma	2		BRETCH DIVERSION DAM	Transferred	Rehabilitate the radial gates	D	S 500,000			s 73,600			6 42	.400	500.0
Kianoma	3	MOUNTAIN	BRETCH DIVERSION DAM	Transferred	Repair/Replace pipeline for delivery of water to Hackberry Flats		\$ 500,000			\$ /3,600			\$ 42	,400	500,0
klahoma	3	PARK PROJECT	FREDERICK PIPELINE	Transferred	Wildlife Management Area.	C	\$ 250,000	\$ 150,000					\$ 10	0.000	\$ 250.0
Kianoma	,	FARK FROJECT	MOUNTAIN PARK DAM,	Hansieneu	wildine Management Area.		3 230,000	\$ 150,000				+	5 10	,000	230,0
		MOUNTAIN	DIKES, TOM STEED RES		Rehabilitate slide gates and trashrack anchor bolts for all three										
klahoma	3	PARK PROJECT	(Otter Creek, CtA)	Transferred	conduits	E	\$ 150,000			\$ 91,845			e 5	,155	150,0
Kiaiioiiia	,	FARK FROJECT	(Otter Creek, CIA)	Hansieneu	The dam safety issues at Altus Dam include internal erosion	ь	3 130,000			3 71,043		+	3 3	,,133	150,0
					potential failure modes at Lugert Dike and East Dike as well as										
					hydrologic overtopping potential failure modes for the dam and										
					dikes. Modifications include construction of filters and drains										
					for Lugert and East Dikes to mitigate internal erosion and										
					raising all dikes to reduce the probability of overtopping and										
			ALTUS DAM, DIKES,		failure during large flood events. Actions to reduce risks										
		W C AUSTIN	RESERVOIR (N Fork Red		associated with internal erosion failure modes will continue										
klahoma	3	PROJECT	Rvr, MFCG)	Transferred	through fiscal year (FY) 2023.		\$ 38,500,000		\$ 17,672,000						17,672,0
Kianoma	3	PROJECT	ALTUS DAM, DIKES,	Transferred	through fiscal year (FY) 2023.	A	\$ 38,500,000		\$ 17,672,000					-+	17,672,0
		W C AUSTIN			B 1 1 22 4 1 4 4 1 1 2 1 1 1 1 1 1 1 1 1										
	3	PROJECT	RESERVOIR (N Fork Red Rvr. MFCG)	m	Rehabilitate canal outlet works high pressure slide gates and	-	S 150,000							.000	150.0
klahoma	3	PROJECT		Transferred	operating system and fixed wheel gate motor and controls	E	\$ 150,000	\$ 33,000					\$ 11	,000	5 150,0
		W.C. ALICTRI	ALTUS DAM, DIKES,		D 1 1 22 4 11 21 1 1 2 4 4 11 1 1 2 4										
		W C AUSTIN	RESERVOIR (N Fork Red	m	Rehabilitate canal bridge leading to control house by replacing	_									
clahoma	3	PROJECT	Rvr, MFCG)	Transferred	deck and repairing piers	E	\$ 130,000	\$ 28,600					\$ 10	,400	130,0
		WASHITA													
		BASIN PROJECT,			L										
	_	FORT COBB			Replace existing aqueduct to provide full delivery capabilities to	-									
clahoma	3	DIVISION	ANADARKO AQUEDUCT	Transferred	project beneficiaries and ensure continued successful operation.	D	\$ 12,000,000						\$ 12,00	0,000	12,000,0
		WASHITA													
			FORT COBB DAM,												
		FORT COBB	RESERVOIR (Pond (Cobb)		L										
klahoma	3	DIVISION	Creek HE)	Transferred	Rehabilitate 24" sleeve valve on M&I outlet works	D	\$ 150,000			\$ 97,155			\$ 5	,845	150,0
		WASHITA													
	3	BASIN PROJECT,	nogg i grippriom	m											
klahoma	3	FOSS DIVISION	FOSS AQUEDUCT	Transferred	Repair/Replace corroded surge tanks along the Foss Aqueduct.	С	\$ 500,000						\$ 50	0,000	500,0
		***													
		WASHITA													
	3		FOSS DAM, RESERVOIR		L	_									
klahoma	3	FOSS DIVISION	(Washita River ZE)	Transferred	Rehabilitate relief well/toe drain system	D	\$ 300,000			\$ 197,940			\$ 10	,060	300,0
					L										
		WASHITA			Rehabilitate corroded metal-work in the river outlet works gate										
			FOSS DAM, RESERVOIR		chamber and shaft to include the ladder, vent pipe, electrical										
klahoma	3	FOSS DIVISION	(Washita River ZE)	Transferred	conduits, ventilation system, and elevator.	D	\$ 250,000			\$ 164,950			\$ 8	,050	250,0
		WASHITA			L										
	_		FOSS DAM, RESERVOIR		Remove sediment accumulations around M&I intake structures										
klahoma	3	FOSS DIVISION	(Washita River ZE)	Transferred	and clear lowest M&I intake	C	\$ 200,000			\$ 131,960			\$ 6	,040	200,0
			ARBUCKLE DAM, DIKES,		L.,										
		ARBUCKLE	LAKE OF ARBUCKLES		Make repairs to deteriorating riprap on the upstream face of	_									
klahoma	4	PROJECT	(Rock Cr ZE)	Transferred	Arbuckle Dam	E	\$ 1,000,000	\$ 306,550		\$ 693,450					1,000,0
	I		NORMAN DAM,	1	Rehabilitate corroded metal-work in the river outlet works gate			1	1	1	I	I		- 1	
	l .	NORMAN	RESERVOIR (Lake		chamber and shaft to include the ladder, vent pipe, electrical							1			
klahoma	4	PROJECT	Thunderbird)	Transferred	conduits, and ventilation system.	D	\$ 150,000	ļ	ļ			-	\$ 15	,000	150,0
	l .	TUALATIN										1			
Oregon	1	PROJECT	Henry Hagg Lake REC	Transferred	Henry Hagg Res. Visitor Center/Office Building	В	\$ 3,042,000	\$ 1,000,000					\$ 1,00	0,000	2,000,0
_	l .	TUALATIN	L	1	Cost share to plan the repair and replace campground facilities	1 _		l	1	1	I	I	_	1	
Oregon	1	PROJECT	Henry Hagg Lake REC	Transferred	and meet ADA compliance.	В	\$ 1,160,200	\$ 350,200	ļ			<u> </u>	\$ 55	,000	900,2
				1	The dam safety issues at Scoggins Dam are associated with the							1		J	
				1	potential deformation of the dam during an earthquake, resulting	g						1		J	
		L		1	in overtopping or erosion failure of the dam The Corrective							1		J	
	I	TUALATIN		1	Action Study to identify appropriate risk reduction actions is in			1	1.	1	I	I		- 1	
Oregon	1	PROJECT	Scoggins Dam and Reservoir	Reserved	progress.	A	\$ 690,000,000	ļ	\$ 677,330,000			1			677,330,0
		TUALATIN		1	Scoggins Dam - Repair the cavitation damage to the right side o							1		J	
regon	1	PROJECT	Scoggins Dam and Reservoir	Reserved	the outlet works right regulating gate.	E	\$ 20,000	\$ 20,000	]						\$ 20,0
		1	LOWER POWDER ID -	1	1			1	1			1		ſ	
		BAKER	THIEF VALLEY DAM AND	I	Improve Access Road(s) to be able to access the dam in								I		
bracon	2	DDOIECT	DECEDVOID	Transformed	incloment weather		\$ 200,000	1	1		I		1 6 20	000	200

200,000

300,000

200,000 \*

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150,000 \*

200,000 \$

300,000

150,000

PROJECT

PROJECT,

BAKER

PROJECT,

JPPER DIVISIO

JPPER DIVISION PLANT

Oregon

Oregon

RESERVOIR

W WATERWAY

BAKER VALLEY ID -

LILLEY MAIN PUMPING

STRUCTURES

BAKER VALLEY ID - F an

inclement weather

eplace pumps and motors to increase efficiency and reliabilit

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	g Categories*			]
		ı	1	Т		MR&R		Reclamation	Appropriated			Non-Federal Financia	ıg	
	Congressional	Authorized		Transferred / Reserved		Categorization	Estimated Total	Excluding Dam		Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project BAKER	Asset Name BAKER VALLEY ID -	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
	2	PROJECT, UPPER DIVISION	LILLEY RELIFT PUMPING	Transferred	Replace pumps and motors. This will increase efficiency and reliability.	C	\$ 150,000						\$ 150,000	\$ 150,000 *
Oregon		BURNT RIVER											\$ 150,000	
Oregon	2	PROJECT BURNT RIVER	Unity Reservoir REC	Transferred	Unity Lake Accessible Pier	В	\$ 640,000					\$ 290,635		\$ 581,269 *
Oregon	2	PROJECT CROOKED	Unity Reservoir REC Arthur R Bowman Dam and	Transferred	Unity Lake Shoreline Stabilization at Unity Lake Recreation Site A.R. Bowman Spillway Inlet Gate Placement for Capacity	С	\$ 330,000	\$ 330,000						\$ 330,000 *
Oregon	2	RIVER PROJECT CROOKED	Reservoir Arthur R Bowman Dam and	Reserved	Restoration Design and construct upgraded access road along left	D	\$ 1,000,000	\$ 1,000,000						\$ 1,000,000 *
Oregon	2	RIVER PROJECT	Reservoir	Reserved	downstream abutment of AR Bowman Dam.	В	\$ 250,000	\$ 250,000						\$ 250,000 *
Oregon	2	CROOKED RIVER PROJECT	Arthur R Bowman Dam and Reservoir	Reserved	16BOW1001: A. R. BOWMAN DAM SPILLWAY BRIDGE - Update downstream safety railing	В	\$ 50,000	\$ 50,000						\$ 50,000 *
Oregon	2	CROOKED RIVER PROJECT	Prineville Reservoir State Park REC	Transferred	Prineville Reservoir Resort Restoration	D	\$ 480,000	\$ 140,000					\$ 140,000	\$ 280,000 *
Oregon	2	DESCHUTES PROJECT	Crane Prairie Dam and Reservoir	Transferred	Outlet works structure rehabilitation - Concrete and coating repairs and repair or replacement of bypass gate.	D	\$ 75,000						\$ 75,000	\$ 75,000 *
		DESCHUTES											3 75,000	
Oregon	2	PROJECT DESCHUTES	Hydromet Network	Reserved	New office construction for BFO 16NUD1009:N. UNIT MAIN CANAL-STA 1415+66.17	В	\$ 3,500,000	\$ 3,500,000						\$ 3,500,000
Oregon	2	PROJECT	North Unit Main Canal	Transferred	BRIDGE - Repair concrete and joint filler Study Wickiup outlet works upgrade to alleviate icing damage to	E	\$ 15,000						\$ 15,000	\$ 15,000 *
Oregon	2	DESCHUTES PROJECT	Wickiup Dam and Reservoir	Transferred	concrete splitter and stilling basin walls caused by increased winter flows due to HCP requirements.	C	S 100.000						\$ 100,000	\$ 100,000 *
		KLAMATH			A Canal Phase 1 work as defined in the September 2014 TROF								3 100,000	
Oregon	2	PROJECT KLAMATH	A CANAL	Transferred	on the A Canal.	A	\$ 8,200,000					\$ 8,200,000		\$ 8,200,000
Oregon	2	PROJECT KLAMATH	C CANAL	Transferred	C Canal Lining	С	\$ 500,000	\$ 500,000						\$ 500,000 *
Oregon	2	PROJECT KLAMATH	C G CANAL	Transferred	C-G Siphon Pipe Repair	В	\$ 2,000,000						\$ 2,000,000	\$ 2,000,000 *
Oregon	2	PROJECT	C G CANAL	Transferred	Rehab C-G Siphon Gate B	Е	\$ 200,000						\$ 200,000	\$ 200,000 *
Oregon	2	KLAMATH PROJECT	C G CANAL	Transferred	Rehab C-G Siphon Gate C	E	\$ 200,000						\$ 200,000	\$ 200,000 *
Oregon	2	KLAMATH PROJECT	C G CANAL	Transferred	Rehab C-G Siphon Gate A	Е	\$ 200,000						\$ 200,000	\$ 200,000 *
	2	KLAMATH PROJECT	KLAMATH STRAITS DRAIN ENLARGEMENT	Reserved	Rehabilitate pumping plant EE/FF to bring back to specification.	С	\$ 750,000					\$ 410,000		\$ 410,000
Oregon	2	KLAMATH	LOST RIVER DIVERSION		Three radial gates at the Lost River Diversion Dam should be									
Oregon	2	PROJECT KLAMATH	DAM - Wilson Dam NORTH CANAL LANGELL	Reserved	refurbished.	В	\$ 200,000					\$ 100,000		\$ 100,000
Oregon	2	PROJECT KLAMATH	VALLEY IRR DISTRICT NORTH CANAL LANGELL	Transferred	North Canal Rehabilitation	D	\$ 180,000						\$ 180,000	\$ 180,000 *
Oregon	2	PROJECT	VALLEY IRR DISTRICT WEST SIDE CANAL	Transferred	North Canal Tree Removal	D	\$ 140,000						\$ 140,000	\$ 140,000
	2	KLAMATH	LANGELL VALLEY IRR	T. C. I	W. C. INILIZA	D	6 200.000						e 200.000	200000
Oregon	2	PROJECT	DISTRICT WEST SIDE CANAL	Transferred	West Canal Rehabilitation	D	\$ 360,000						\$ 360,000	\$ 360,000 *
Oregon	2	KLAMATH PROJECT	LANGELL VALLEY IRR DISTRICT	Transferred	West Canal Tree Removal	D	\$ 120,000						\$ 120,000	\$ 120,000
		OWYHEE	20 S FIRST ST OWYHEE ID											
Oregon	2	PROJECT	SHOP / QUONSET	Transferred	Replace roof.	Е	\$ 25,000						\$ 25,000	\$ 25,000 *
Oregon	2	OWYHEE PROJECT	4404 BAKER RD OWYHEE ID ONTARIO FIELD OFFICE	Transferred	Replace all windows with new energy star windows along with replacing all lights with LED bulbs.	E	\$ 20,000						\$ 20,000	\$ 20,000 *
		OWYHEE	4406 BAKER RD OWYHEE ID DITCHRIDER HOUSE-		Replace all windows with new energy star windows along with								,,,,	
Oregon	2	PROJECT	USED AS OFFICE	Transferred	replace all windows with new energy star windows along with replacing all lights with LED bulbs.	E	\$ 20,000						\$ 20,000	\$ 20,000 *
Oregon	2	OWYHEE PROJECT	Lake Owyhee Government Camp RW REC	Reserved	Meet Federal accessibility standards. 2007-2-B	D	\$ 250,000						\$ 250,000	\$ 250,000 *
Oregon	2	OWYHEE PROJECT	Lake Owyhee Government Camp RW REC	Reserved	LAKE OWYHEE - GOVERNMENT CAMP - Replace old flush toilets with unisex vault or double flush toilet.	D	\$ 12,000	\$ 12,000						\$ 12,000 *
Oregon	2	OWYHEE PROJECT	OWYHEE ID - OWYHEE DAM AND LAKE OWYHEE	Transferred	Repair concrete on glory hole spillway crest	D	\$ 750,000	,,,,,					\$ 750,000	\$ 750,000 *
	2	OWYHEE	OWYHEE ID - PUMPING PLANTS			E	730,000						\$ 120,000	
Oregon	2	PROJECT	OWYHEE ID AND SOUTH	Transferred	Replace roofs.	E	\$ 120,000						a 120,000	\$ 120,000 *
Oregon	2	OWYHEE PROJECT	BOARD OF CONTROL - MAIN CANALS	Transferred	Concrete and Huesker line North and South Main Canals (Approximately 100 Miles).	D	\$ 528,000,000						\$ 528,000,000	\$ 528,000,000 *
		OWYHEE	OWYHEE ID AND SOUTH BOARD OF CONTROL -		Piping of existing open ditches to increase safety to surrounding									
Oregon	2	PROJECT	LATERALS	Transferred	communities and increase water delivery efficiency.	С	\$ 5,000,000						\$ 5,000,000	\$ 5,000,000 *
Oregon	2	OWYHEE PROJECT	OWYHEE RESERVOIR VISITOR BUILDING	Transferred	New windows and lights to increase building efficiency and provide more protection from being broken into.	E	\$ 25,000						\$ 25,000	\$ 25,000 *
		ROGUE RIVER PROJECT,												Ι Τ
Oregon	2	TALENT DIVISION	Emigrant Lake REC	Transferred	ADA Improvements at Agate, Emigrant, and Howard Prairie Reservoirs	D	\$ 472,000	\$ 176,000					\$ 176,000	\$ 352,000 *
Oregon		PIAIDION	Linigiant Lake REC	riansierred	reservous	Ð	⇒ 4/2,000	υ 1/0,000	ı		1	l	φ 1/0,000	9 332,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	g Categories*	N E I IE: :		
			1	Transferred /		MR&R	1	Reclamation	Appropriated			Non-Federal Financi	ng I	
_	Congressional	Authorized		Reserved		Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project ROGUE RIVER	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		PROJECT,												
		TALENT												
Oregon	2	DIVISION	Emigrant Lake REC	Transferred	Emigrant Lake Pavement Overlay	C	\$ 400,000						\$ 50,000	\$ 50,000
		ROGUE RIVER PROJECT,												
		TALENT												
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	Green Springs - Unit 1 Stator Winding	D	\$ 5,236,000				\$ 5,236,000			\$ 5,236,000
		ROGUE RIVER												
		PROJECT, TALENT			Green Springs - (Analog) Station Control Boards/Console									
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	Rehabilitation or Replacement	D	\$ 2,205,000				\$ 2,205,000			\$ 2,205,000
		ROGUE RIVER												
		PROJECT,												
Oregon	2	TALENT DIVISION	Green Springs Power Plant	Reserved	Green Springs - Valve (Emergency Closure) - Rotary Guard Valve Rehabilitation or Replacement	D	\$ 1,013,000				\$ 1,013,000			\$ 1,013,000
Oregon		ROGUE RIVER	oreen springs rower riant	reserved	varve remainment of replacement	ь	3 1,015,000				3 1,015,000			3 1,013,000
		PROJECT,												
		TALENT			Green Springs - Communication Hardware - System	E								
Oregon	2	DIVISION ROGUE RIVER	Green Springs Power Plant	Reserved	01Rehabilitation or Replacement	E	\$ 970,000				\$ 970,000			\$ 970,000
		PROJECT,			Green Springs Station Power - Distribution (Electrical, <600V) -									
		TALENT			DC Distribution 115 kV SWYD 125 VDC Rehabilitation or									
Oregon	2	DIVISION ROGUE RIVER	Green Springs Power Plant	Reserved	Replacement	D	\$ 825,000				\$ 825,000			\$ 825,000
		PROJECT,												
		TALENT			Green Springs - Unit 1 Governor Control System Rehabilitation			]	[					
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	or Replacement	D	\$ 750,000				\$ 750,000			\$ 750,000
		ROGUE RIVER PROJECT,												
		TALENT												
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	Green Springs Powerplant - replace guard gate control	D	\$ 841,530				\$ 488,000			\$ 488,000
		ROGUE RIVER												
		PROJECT, TALENT			Green Springs - Unit 1 Circuit Breaker (Vacuum) Rehabilitation									
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	or Replacement	D	\$ 390,000				\$ 390,000			\$ 390,000
		ROGUE RIVER												
		PROJECT,												
Oregon		TALENT DIVISION	Green Springs Power Plant	Reserved	Green Springs - Generator Unit 01 Stator Auxiliaries Rehabilitation or Replacement	D	\$ 375,000				\$ 375,000			\$ 375,000
Oregon		ROGUE RIVER	Green Springs rower riant	reserved	Renaumation of Replacement	ь	3 373,000				3 373,000			373,000
		PROJECT,												
		TALENT			Green Springs - Unit 1 Turbine Guide Bearing Guide									
Oregon	2	DIVISION ROGUE RIVER	Green Springs Power Plant	Reserved	Rehabilitation or Replacement	D	\$ 350,000				\$ 350,000			\$ 350,000
		PROJECT,												
		TALENT			Green Springs - Unit 1 Thrust Bearings Rehabilitation or									
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	Replacement	D	\$ 344,000				\$ 344,000			\$ 344,000
		ROGUE RIVER PROJECT,						]	[					
		TALENT			Green Springs - Station Power - Distribution (Electrical, <600V)									
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	- 480V Control Center Rehabilitation or Replacement	D	\$ 340,000				\$ 340,000			\$ 340,000
		ROGUE RIVER PROJECT,						]	[					
		TALENT			Green Springs - Unit 1 (Digital) Annunciation System 1			]	[					
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	Rehabilitate or Replace.	С	\$ 313,000				\$ 313,000			\$ 313,000
		ROGUE RIVER												
		PROJECT, TALENT			Green Springs - Compressed Air System 1 Rehabilitation or			]	[					
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	Replacement	D	\$ 296,000	]	[		\$ 296,000			\$ 296,000
3		ROGUE RIVER					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							,
		PROJECT,			C C HAN CHE BILL									
Oregon	2	TALENT DIVISION	Green Springs Power Plant	Reserved	Green Springs - Unit 1 Upper Guide Bearings Rehabilitation or Replacement	D	\$ 124,000				\$ 124,000			\$ 124,000
Jiegon	-	ROGUE RIVER	Green Springs Fower Flant	reserved	reprovement	D	J 124,000				y 124,000			124,000
		PROJECT,												
	2	TALENT	0 0 : 7 71	l	Green Springs - Unit 1 Generator - Lower Guide Bearing	P		]	[					
Oregon		DIVISION ROGUE RIVER	Green Springs Power Plant	Reserved	Rehabilitation or Replacement	D	\$ 120,000	-	<b>-</b>		\$ 120,000		1	\$ 120,000
		PROJECT,												
		TALENT			Green Springs - Intake Trash Rack Rehabilitation or									
Oregon	2	DIVISION	Green Springs Power Plant	Reserved	Replacement	D	\$ 3,986,000				\$ 110,000		ļ	\$ 110,000
		ROGUE RIVER PROJECT,						]	[					
		TALENT			Jackson County T28 O&M grant for Agate, Emigrant, and			]						
Oregon	_	DIVISION	Howard Prairie Lake REC	Transferred	Howard Prairie	C	\$ 1,325,414	\$ 201,785		l	1	l	\$ 397,707	\$ 599,492

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

	Non-Federal Finance Power Reserved Works Water Users  \$ 150,000	Operating Partners	Estimated 30-Year MR&R Total  \$ 150,000  \$ 100,000  \$ 100,000
Congressional   Authorized   District   Project   Asset Name   Works   Brief Description of Work Needed   Rating   Costs   Safety   Safety   Federal   Final Project   Final	nancing Water Users	Partners	\$ 150,000  \$ 100,000
State District Project Asset Name Works Brief Description of Work Needed Rating Costs Safety Federal Fine Rock Project Rates Project Rates Project Rock Project Rates Project Rock Project Rates Project Rates Project Rock Project Rates Projec	nancing Water Users	Partners	\$ 150,000  \$ 100,000
ROGUE RIVER   PROJECT, TALENT   Howard Prairie Lake REC   Transferred   T28 Marina ADA Upgrades Howard Prairie Reservoir   B   \$ 4,353,130			S 150,000 S 100,000 S 100,000
TALENT Division Howard Prairie Lake REC Transferred T28 Marina ADA Upgrades Howard Prairie Reservoir B \$ \$ 4,353,130 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 150,000		S 100,000
Oregon   2 DIVISION   Howard Prairie Lake REC   Transferred   T28 Marina ADA Upgrades Howard Prairie Reservoir   B   \$ 4,353,130	\$ 150,000		S 100,000
ROGUE RIVER PROJECT. TALENT Oregon 2 DIVISION Dam Transferred Study Rehabilitation of Medford Irrigation District's Phoenix Diversion Fish Ladder.  ROGUE RIVER PROJECT. TALENT Talent ID East Lateral and Extension Transferred Study Rehabilitation of Medford Irrigation District's Phoenix Diversion Fish Ladder.  ROGUE RIVER PROJECT. TALENT Talent ID East Lateral and Extension Transferred Water.  ROGUE RIVER PROJECT. TALENT Talent ID East Lateral and Extension Transferred with the Nogue River Project. They are inaccessible features and it is not believed any of them have been examined or evaluated.  ROGUE RIVER PROJECT. TALENT Talent ID East Lateral and Extension Transferred with the Nogue River Project. They are inaccessible features and it is not believed any of them have been examined or evaluated.  C S 100,000 \$ 10	3 1.50,000		S 100,000
TALENT Deform Deform Diversion Demonstrated Deforming Description of Medford Irrigation District's Phoenix Diversion Fish Ladder.  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Personal Description of Medford Irrigation District's Phoenix Diversion Fish Ladder.  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Personal Description of Medford Irrigation District's Phoenix Diversion Fish Ladder.  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Personal Description Description of Medford Irrigation District's Phoenix Diversion Fish Ladder.  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Extension Transferred Division Description Description of Medford Irrigation District's Phoenix Diversion Fish Ladder.  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Extension Transferred Division Description Description Description Description Project There are approximately 64 siphons which were constructed with the Rogue grayer Project. They are inaccessible features and it is not believed any of them have been examined or evaluated.  ROGUE RIVER PROJECT, TALENT Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Transferred Division Reservoir Transferred Description Descript		\$ 70,000	\$ 100,000
Oregon   2   DIVISION   Dam   Transferred   Diversion is h. Ladder.   D   S   100,000   S   100,000   Dam   Diversing in sh. Ladder.   D   S   100,000   S   100,000   Dam   Diversing in sh. Ladder.   D   S   100,000   Dam   Diversing in sh. Ladder.   D   S   100,000   Dam   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Diversing in sh. Ladder.   Date   Dat		\$ 70,000	\$ 100,000
ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Oregon and supplies the SW half of the Valley with irrigation Water.  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Division Extension  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Oregon and supplies the SW half of the Valley with irrigation Water.  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Division Extension  ROGUE RIVER PROJECT, TALENT Talent ID Emigrant Dam and Oregon  PROJECT, TALENT Talent ID Emigrant Dam and Oregon  PROJECT, TALENT Talent ID Emigrant Dam and Dregon  PR		\$ 70,000	\$ 100,000
ROGUE RIVER PROJECT, Talent ID East Lateral and Fransferred Sphore values and supplies the SW half of the Valley with irrigation water.  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Extension Transferred Water Project. TALENT Talent ID East Lateral and Extension Transferred with the Rogue River Project. There are approximately 64 siphons which were constructed with the Rogue River Project. There are approximately 64 siphons which were constructed with the Rogue River Project. They are inaccessible features and it is not believed any of them have been examined or evaluated.  Cregon 2 DIVISION Extension Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Transferred Transferred Emigrant Low Flow Bypass Installation B \$ \$ 1,423,600 \$ 1,376,000 \$ 1,376,		\$ 70,000	
PROJECT, TALENT Talent ID East Lateral and Oregon and supplies the SW half of the Valley with irrigation water.  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Oregon 2 DIVISION Extension Transferred  ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Extension Transferred Sudy and real property acquisition and road construction for alternate route for emergency access to Emigrant Dam.  Study and real property acquisition and road construction for alternate route for emergency access to Emigrant Dam.  Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Drugon Project ID Emigrant Dam and Drugon Extension Transferred Sudy and real property acquisition and road construction for alternate route for emergency access to Emigrant Dam.  Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Drugon Extension Transferred Emigrant Low Flow Bypass Installation B S 1,423,600 \$ 1,376,000		\$ 70,000	
Oregon 2 DIVISION Extension Transferred water. B \$ 100,000 \$ 30,000 \$ 30,000 \$		\$ 70,000	
ROGUE RIVER PROJECT, TALENT Talent ID East Lateral and Division Extension Transferred PROJECT, TALENT Talent ID Emigrant Dam and Oregon 2 Division Rogue River Project. They are approximately of 4s plants of the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. There are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue River Project. They are approximately of 4s plants with the Rogue reaccessable features and it is not believed any of them have been examined or c and a subject of the Alexander River Project. They are approximately of the with the Rogue reaccessable features and it is not believed any of them have been examined or c S 100,000 \$ 100,000 \$ \$ 100		\$ 70,000	
ROGUE RIVER PROJECT, Talent ID East Lateral and Transferred over the Rogue River Project. They are inaccessible features and it is not believed any of them have been examined or evaluated.  Talent ID East Lateral and Transferred over the Rogue River Project. They are inaccessible features and it is not believed any of them have been examined or evaluated.  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Transferred PROJECT, TALENT Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds			S 100,000
PROJECT, TALENT Talent ID East Lateral and Oregon 2 DIVISION Extension Oregon 2 DIVISION Reservoir Tansferred Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Transferred Emigrant Low Flow Bypass Installation Umattila Basin Project Phase 1 and 2 Motor and Pump Rebuilds - Group E			\$ 100,000
Oregon   2			\$ 100,000
ROGUE RIVER PROJECT, TALENT Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Division Reservoir Talent ID Emigrant Dam and Project Phase I and 2 Motor and Pump Rebuilds  Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Division Reservoir Talent ID Emigrant Dam and Division Reservoir Talent ID Emigrant Low Flow Bypass Installation B S 1,423,600 S 1,376,000 Umattila Basin Project Phase I and 2 Motor and Pump Rebuilds  Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Division Reservoir Talent ID Emigrant Low Flow Bypass Installation B S 1,423,600 S 1,376,000 Umattila Basin Project Phase I and 2 Motor and Pump Rebuilds			\$ 100,000
PROJECT, TALENT Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Tansferred Emigrant Low Flow Bypass Installation Umatilia Basin Project Phase I and 2 Motor and Pump Rebuilds - Group E			
Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Talent ID Emigrant Dam and Property acquisition and road construction for alternate route for emergency access to Emigrant Dam. C \$ 10,000,000 \$			
Oregon 2 DIVISION Reservoir Transferred alternate route for emergency access to Emigrant Dam. C \$ 10,000,000			
PROJECT, TALENT Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Emigrant Low Flow Bypass Installation B \$ 1,423,600 \$ 1,376,000 Umatilla Basin Project Phase 1 and 2 Motor and Pump Rebuilds - Group E			\$ 10,000,000
TALENT Talent ID Emigrant Dam and Oregon 2 DIVISION Reservoir Transferred Emigrant Low Flow Bypass Installation B S 1,423,600 \$ 1,376,000 Umatilla Basin Project Phase 1 and 2 Motor and Pump Rebuilds - Group E		1	
Oregon 2 DIVISION Reservoir Transferred Emigrant Low Flow Bypass Installation B \$ 1,423,600 \$ 1,376,000 Umatilla Basin Project Phase 1 and 2 Motor and Pump Rebuilds - Group E			
Umatilla Basin Project Phase 1 and 2 Motor and Pump Rebuilds - Group E	1		\$ 1,376,000
- Group E		1	2 1,570,000
Columbia River Pumning Plant Motors			
UMATILLA Columbia River Pumping Plant Reserved Phase I Motors C \$ 1,438,000 \$ 1,438,000			\$ 1,438,000
Original 2 - 1-1-2-2-1 Common reversion and Pump Rebuilds   Umatila Basin Project Phase 1 and 2 Motor and Pump Rebuilds			3 1,430,000
- Group B			
UMATILIA			
Oregon 2 PROJECT Columbia River Pumping Plant Reserved Columbia River Pumping Plant Pumps C \$ 1,319,800 \$ 1,319,80			\$ 1,319,800
Umatilla Basin Project Phase 1 and 2 Motor and Pump Rebuilds - Group F			
UMATILLA Columbia River Pumping Plant Pump Rebuilds			
Oregon 2 PROJECT Columbia River Pumping Plant Reserved Phase I Pump Rebuilds C \$ 1,065,000 \$ 1,065,000			\$ 1,065,000
Umatilla Basin Project Phase 1 and 2 Motor and Pump Rebuilds - Group C			
l Circup C			
Columbia River Pumping Plant Motor Rebuilds			
UMATILLA Phase I Motor Rebuilds			
Oregon 2 PROJECT Columbia River Pumping Plant Reserved Cold Springs Pumping Plant Motor Rebuilds C \$ 1,009,500 \$ 1			\$ 1,009,500
Uniatina basin froject riase i and 2 motor and rump reodinis - Group A			
UMATILLA			
Oregon 2 PROJECT Columbia River Pumping Plant Reserved Columbia River Pumping Plant Motor Rebuilds C \$ 976,000 \$ 976,000			\$ 976,000
Umatilla Basin Project Phase 1 and 2 Motor and Pump Rebuilds			
- Group D			
UMATILLA Columbia River Pumping Plant VFD Motor			
Oregon 2 PROJECT Columbia River Pumping Plant Reserved Phase I VFD Motor Rebuild C \$ 179,000 \$ 179,000		<u> </u>	\$ 179,000
UMATILLA Hermiston ID Cold Springs Remove and replace the upstream-most outlet works gate house			
Oregon 2 PROJECT Dam and Reservoir Transferred access footbridge support. C \$ 325,000 UMATILLA Reinforce downstream channel to prevent erosion from high		\$ 325,000	\$ 325,000
Oregon 2 PROJECT McKay Dam and Reservoir Reserved flows 1 Reserved flows 1 C \$ 175,000 \$ 175,000			s 175,000
UMATILLA UMATILLA		1	
Oregon 2 PROJECT McKay Dam and Reservoir Reserved Repair rock erosion damage on right side spillway C \$ 175,000 \$ 175,000			\$ 175,000
UMATILLA Stanfield North Branch Phase UMartil Rabase II Water Exchange - Remove the delaminated mortar and place new mortar in the crown of the pine from			
UMATILLA Stanfield North Branch Phase mortar and place new mortar in the crown of the pipe from Stations 16+80 to 17+00.  D \$ 10,000 \$ 10,000 \$			\$ 10,000
Oregon 2   PROJECT   II Maint Canal (Furths) Canal)   Transferred   Stations (1970) (6)   17/100.		1	10,000
CREEK DAM AND			
Oregon 2 VALE PROJECT RESERVOIR Transferred Repair spalled concrete along spillway floor Station 5+50 E \$ 75,000		\$ 75,000	\$ 75,000
VALE OREGON ID - BULLY			
VALE OKEGON ID - BULLY CREEK EXTENSION Piping of existing open ditches to increase safety to the local			
Oregon 2 VALE PROJECT LATERAL SYSTEM Transferred community and increase water deliver efficiency. D \$ 4,000,000		\$ 4,000,000	\$ 4,000,000
Replace current drive system for radial gates and install an		1	
VALE OREGON ID - automation system that would allow the gates to be monitored		I	l J
Oregon 2 VALE PROJECT HARPER DIVERSION DAM Transferred and controlled from Vale Oregon. D S 400,000	-+	\$ 400,000	\$ 400,000
VALE OREGON ID - Piping of existing open ditches to increase safety to local Oregon 2 VALE PROJECT LATERAL SYSTEM Transferred communities along with increase water delivery efficiency. C \$ 3,000,000		\$ 3,000,000	\$ 3,000,000
Origini 2 VALE (REQUEST EXTENDED TO ALE PROPERTY OF TRANSPORT OF TRANS		\$ 5,000,000	2,000,000
Oregon 2 VALE PROJECT MAIN CANAL SYSTEM Transferred Canal. D \$ 165,272,000		\$ 165,272,000	\$ 165,272,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	g Categories*			
	1	1	T	Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financia	ng	
State	Congressiona District	Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
South Dakota	1	BELLE FOURCHE PROJECT	BELLE FOURCHE RECREATION FACILITIES	Transferred	Gaiden's Point boat ramp replacement and relocation and shoreline revetment	C	\$ 1,990,000			\$ 1,990,000				\$ 1,990,000
South Dakota	1	BELLE FOURCHE	BELLE FOURCHE	Transferred	Repair and reconstruct Suzie Peak Road, 24' gravel road with at	C	3 1,990,000			\$ 1,990,000				3 1,990,000
South Dakota	1	PROJECT BELLE	RECREATION FACILITIES	Transferred	least 3" of surface gravel	С	\$ 800,000			\$ 800,000				\$ 800,000
South Dakota	1	FOURCHE PROJECT BELLE	BELLE FOURCHE RECREATION FACILITIES	Transferred	Construct rip rap along the embankment of Middle Point camping area.	D	\$ 280,000	\$ 280,000						\$ 280,000
South Dakota	1	FOURCHE PROJECT	INLET CANAL (1300 cfs)	Transferred	Inlet Canal Terminal Drop Structure Repair	E	\$ 150,000						\$ 100,00	0 \$ 100,000
South Dakota	1	BELLE FOURCHE PROJECT	NORTH CANAL	Transferred	North Canal Waste Way Drop Structure	E	\$ 50,000						\$ 50.00	0 \$ 50,000 *
			Lower Brule Sioux Water		Water Treatment Plant, building, mechanical treatment. Plant and mechanic was recently upgrades and replaced. Mechanical		-							
South Dakota	1	MNI WICONI PROJECT	Treatment Plant/Intake Pumping Plant	Transferred	is in good condition, however filtration plants have an estimated lifespan of approximately 20 year.	В	\$ 430,000	s 430,000						\$ 430,000 *
		MNI WICONI	OSRWSS Mni Wiconi		Pumps and valves are being utilized on a continous basis			,						,
South Dakota	1	PROJECT P-S MBP.	Distribution System ANGOSTURA DAM,	Transferred	increasing the probability of failure	С	\$ 800,000	\$ 300,000				-		\$ 300,000 *
		ANGOSTURA	RESERVOIR (Cheyenne									ĺ		
South Dakota	1	UNIT P-S MBP,	River, CG EW) ANGOSTURA DAM,	Transferred	Radial Gate and River and Canal Penstock Recoating	D	\$ 1,400,000	\$ 1,378,860					\$ 21,14	0 \$ 1,400,000 *
South Dakota	1	ANGOSTURA UNIT	RESERVOIR (Cheyenne River, CG EW)	Transferred	Concrete Spillway Repair	С	\$ 300,000	\$ 295,470					\$ 4,53	0 \$ 300,000 *
South Dakota	1	P-S MBP, ANGOSTURA UNIT	ANGOSTURA DAM, RESERVOIR (Cheyenne River, CG EW)	Transferred	Gallery Drain Cleaning	C	\$ 150,000	\$ 147,735					\$ 2,20	5 \$ 150,000 *
		P-S MBP, ANGOSTURA	ANGOSTURA DAM, RESERVOIR (Cheyenne		D. ( D. )									
South Dakota		UNIT P-S MBP.	River, CG EW)	Transferred	Battery Replacements	D	\$ 25,000	\$ 24,623					\$ 3	7 \$ 25,000 *
South Dakota	1	ANGOSTURA UNIT	ANGOSTURA RECREATION FACILITIES	Transferred	North and South park connector access road and shoreline revetment	С	\$ 730,000			\$ 730,000				\$ 730,000
South Dakota	1	P-S MBP, OAHE UNIT	OAHE PUMPING PLANT	Reserved	Demolish and Transfer Oahe Pumping Plant Facility	Е	s 25,000,000	\$ 25,000,000						\$ 25,000,000 *
		P-S MBP, SHADEHILL	SHADEHILL DAM, DIKES, RESERVOIR (Grand River,			-								
South Dakota	1	UNIT P-S MBP,	MHE)	Reserved	Shadehill spillway embankment and rip rip repair	В	\$ 225,000	\$ 225,000						\$ 225,000 *
South Dakota	1	SHADEHILL UNIT	SHADEHILL RECREATION FACILITIES DEERFIELD DAM.	Transferred	Main access road and shoreline revetment;	С	\$ 825,000			\$ 825,000				\$ 825,000
South Dakota	1	RAPID VALLEY PROJECT	RESERVOIR (Castle Creek ZE)	Transferred	Steel Penstock Coating	E	\$ 400,000						\$ 400,00	0 \$ 400,000 *
		SAN ANGELO			Prepare designs and replace existing bridge at the head of the									
Texas	11	PROJECT	Main Canal TWIN BUTTES DAM, RES	Transferred	San Angelo Canal with a culvert.	D	\$ 100,000						\$ 100,00	0 \$ 100,000 *
Texas	11	SAN ANGELO PROJECT	(Mid, S Concho Rvrs, Spring Cr ZE) TWIN BUTTES DAM, RES	Transferred	Recoat the river outlet works intake structure trashracks	E	\$ 200,000			\$ 107,040			\$ 92,90	0 \$ 200,000 *
Texas	11	SAN ANGELO PROJECT	(Mid, S Concho Rvrs, Spring Cr ZE)	Transferred	Rehabilitate corroded metal-work in the river outlet works gate chamber and shaft to include the ladder and electrical conduits.	D	\$ 150,000			\$ 80,280			\$ 69,72	150,000
Texas	11	SAN ANGELO PROJECT	TWIN BUTTES RECREATION FACILITIES SANFORD DAM, LAKE	Transferred	FLTP project for the Marina Road at Twin Buttes Reservoir, Sar Angelo Project.	Е	\$ 500,000	\$ 500,000						\$ 500,000 *
Texas	13	CANADIAN RIVER PROJECT	MEREDITH (Canadian River	Transferred	Replace Coating on Flood Outlet Works fixed wheel and top seal radial gates.	E	\$ 500,000						\$ 500,00	0 \$ 500,000
Texas	25	NUECES RIVER PROJECT	RESERVOIR (Frio River ZE)	Transferred	Make repairs to electrical system, motors, and gate controls	Е	\$ 1,805,000			\$ 607,382			\$ 1,197,6	8 \$ 1,805,000 *
Texas	25	NUECES RIVER PROJECT NUECES RIVER	CHOKE CANYON DAM, RESERVOIR (Frio River ZE) CHOKE CANYON DAM,	Transferred	Make repairs to Gantry Crane  Make repairs to the soil cement slope protection on the upstream	Е	\$ 1,500,000			\$ 504,750			\$ 995,25	0 \$ 1,500,000
Texas	25	PROJECT	RESERVOIR (Frio River ZE)	Transferred	face of the dam just below the normal water surface	D	\$ 300,000			\$ 100,950			\$ 199,03	0 \$ 300,000 *
Texas	25	NUECES RIVER PROJECT NUECES RIVER	CHOKE CANYON DAM, RESERVOIR (Frio River ZE) CHOKE CANYON DAM,	Transferred	Repair concrete damage on the spillway chute floor	D	\$ 200,000			\$ 67,300			\$ 132,70	0 \$ 200,000 *
Texas	25	PROJECT CUP,	RESERVOIR (Frio River ZE)	Transferred	Repair/replace cavitation damage in bypass pipe	E	\$ 200,000			\$ 67,300			\$ 132,70	0 \$ 200,000
Utah	1	BONNEVILLE UNIT	Open Channel No 1	Transferred	Remove energy dissipaters	Е	\$ 100,000						\$ 100,00	0 \$ 100,000 *
Utah	1	CUP, BONNEVILLE UNIT	West Fork Pipeline	Transferred	Concrete pipe repair	D	\$ 250,000						\$ 250,00	0 \$ 250,000 *
Herb		CUP, BONNEVILLE	West Feel Divelies	Townstown	[]	Г	e 165.000						\$ 165.00	0 \$ 165,000 *
Utah	1	UNIT	West Fork Pipeline	Transferred	Flow measurement replacement	E	\$ 165,000	1			l	l	\$ 165,00	0 165,000 °

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Bureau of Reclamation
Asset Management Report
List of Major Rehabilitation and Replacement Activities FY 2021-2050

										Fundir	g Categories*	V 7 1 171 1		
	1	1		Transferred /	T	MR&R	1	Reclamation	Appropriated			Non-Federal Financi	ng	I
	Congressiona			Reserved		Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
					Rehabilitate the Jensen and Vernal Unit field drains by repairing									
		CUP, JENSEN			damaged drains, cleaning root infiltration, and moving drains									
Utah	1	UNIT	Jensen Drains	Transferred	when problems with roots occur on private owners property.	C	\$ 5,000,000						\$ 5,000,000	\$ 5,000,000
		CUP, JENSEN	Red Fleet Dam (Big Brush Creek Zoned Earthfill)		Construct the Burns Bench Pumping Plant to provide water for additional growth in Uintah County and to deliver the 12,000									
Utah	1	UNIT	(Formerly Tyzack Dam)	Transferred	AF per contract.	E	\$ 10,000,000						\$ 10,000,000	\$ 10,000,000
			Red Fleet Dam (Big Brush											
Utah	1	CUP, JENSEN UNIT	Creek Zoned Earthfill)	m c 1		D	\$ 1,800,000	\$ 1,800,000						\$ 1,800,000
Utan	1	UNII	(Formerly Tyzack Dam) Red Fleet Dam (Big Brush	Transferred	Replace the toe drains.	Б	\$ 1,800,000	\$ 1,800,000						\$ 1,800,000
		CUP, JENSEN	Creek Zoned Earthfill)											
Utah	1	UNIT	(Formerly Tyzack Dam)	Transferred	Sand blast and recoat the outlet bypass pipe at Red Fleet Dam.	D	\$ 250,000	\$ 125,000						\$ 125,000
		CUP, JENSEN	Red Fleet Dam (Big Brush Creek Zoned Earthfill)											
Utah	1	UNIT	(Formerly Tyzack Dam)	Transferred	Repair erosion damage along the sides of the spillway walls.	Е	\$ 100,000						\$ 100,000	\$ 100,000
		CUP, JENSEN	Tyzack Pumping Plant (5											
Utah	1	UNIT	Units)	Transferred		D	\$ 200,000						\$ 200,000	\$ 200,000
Utah	1	CUP, JENSEN UNIT	Tyzack Pumping Plant (5 Units)	Transferred	Refurbish the 2 large motors, pumps, and valves at the Tyzack pumping plant	D	\$ 150,000						\$ 150,000	\$ 150,000
Otali	1	CUP, VERNAL	Ollits)	Hallstelled	pumping piant	Б	3 130,000						3 130,000	3 130,000
Utah	1	UNIT	Steinaker Service Canal	Transferred	Pipe the 12 mile long, 300 cfs canal	С	\$ 60,000,000						\$ 60,000,000	\$ 60,000,000
		EMERY COUNTY	I V-ll D (Ch-Cl		Rehabilitation of Joes Valley morning glory auxillary spillway to	1								
Utah	1	PROJECT	Joes Valley Dam (Seely Creek Zoned Earthfill)	Transferred	remediate freeze-thaw damage and left-over construction materials.	С	\$ 5,000,000						\$ 5,000,000	\$ 5,000,000
Otan		I KOJEC I	Zoneu Zarumin)	Hansiered	The dam safety issues at Hyrum Dam are associated with		3 3,000,000						3 3,000,000	3,000,000
					hydrologic potential failure modes. Proposed modifications									
					include construction of a spillway along a new alignment;									
		HYRUM	Hyrum Dam (Little Bear River		demolition, removal, and burial of the existing spillway; and foundation modifications to improve seismic stability of the									
Utah	1	PROJECT	Homogeneous Earthfill)	Transferred	spillway. The Corrective Action Study is underway.	A	\$ 100,000,000		\$ 84,467,000					\$ 84,467,000
		HYRUM	Hyrum Dam (Little Bear River		Sand blast and recoat the interior and exterior of the penstock									
Utah	1	PROJECT	Homogeneous Earthfill) Moon Lake Dam (WF of Lake	Transferred	pipeline paralleling the bench flume.	Е	\$ 150,000						\$ 150,000	\$ 150,000
		MOON LAKE	Fork Duchesne River Zoned											
Utah	1	PROJECT	Earthfill)	Transferred	Repair delaminated concrete in the spillway	C	\$ 3,000,000						\$ 3,000,000	\$ 3,000,000
			Moon Lake Dam (WF of Lake		Rehabilitate Moon Lake Dam Valve House where settlement has									
Utah	1	MOON LAKE PROJECT	Fork Duchesne River Zoned Earthfill)	Transferred	occurred and large cracks have formed between the Valve House and the outlet works tunnel.	F	\$ 250,000						\$ 250,000	\$ 250,000
Otali	1	MOON LAKE	Eartinin)	Halisterred	and the other works tunner.	ь	3 250,000						3 230,000	\$ 230,000
Utah	1	PROJECT	Yellowstone Feeder Canal	Transferred	Repair deteriorated canal lining	E	\$ 20,000,000						\$ 19,232,000	\$ 19,232,000
		NEWTON	Newton Dam and Reservoir											
Utah	1	PROJECT	(Clarkston Creek Zoned Earthfill)	Transferred	Repair or replace the outlet works ladders, gate stems, and gate stem guides.	F	s 100,000						\$ 100,000	\$ 100,000
Otan		OGDEN RIVER	Laturiii)	Hansiered	stein guides.	L	3 100,000						3 100,000	3 100,000
Utah	1	PROJECT	Equalizing Dam No 17	Transferred	Replace the concrete lining in the equalizing reservoir.	C	\$ 400,000						\$ 400,000	\$ 400,000
Utah	1	OGDEN RIVER PROJECT	Equalizing Dam No 25	Transferred	Replace the concrete lining in the equalizing reservoir.	С	\$ 400,000						\$ 400,000	\$ 400,000
Utan	1	OGDEN RIVER	Equalizing Dam No 23	Transferred	Replace the concrete liming in the equalizing reservoir.	C	3 400,000						\$ 400,000	\$ 400,000
Utah	1	PROJECT	Equalizing Dam No 25a	Transferred	Replace the concrete lining in the equalizing reservoir.	C	\$ 400,000						\$ 400,000	\$ 400,000
		OGDEN RIVER				_								
Utah	1	PROJECT OGDEN RIVER	Equalizing Reservoir No 2	Transferred	Replace the concrete lining in the equalizing reservoir.	С	\$ 400,000						\$ 400,000	\$ 400,000
Utah	1	PROJECT	Equalizing Reservoir No 8	Transferred	Replace the concrete lining in the equalizing reservoir.	С	\$ 400,000						\$ 400,000	\$ 400,000
		OGDEN RIVER			Replace remaining portions of 70 year old aging open canal									
Utah	1	PROJECT WEBER BASIN	Ogden Brigham Canal	Transferred	system with pipe.	A	\$ 24,000,000	1	1			1	\$ 24,000,000	\$ 24,000,000
Utah	1	PROJECT	1 9 Equalizing Dam	Transferred	Rehabilitation of Equalizing Reservoir 1.9.	C	\$ 1,075,000						\$ 1,075,000	\$ 1,075,000
Jun		WEBER BASIN	- ,qamang bum	- ransierred	The second secon									
Utah	1	PROJECT	Arthur V Watkins Dam	Transferred	Rehabilitation of A. V. Watkins Dam.	C	\$ 7,500,000		1			1	\$ 7,500,000	\$ 7,500,000
Utah	1	WEBER BASIN PROJECT	Arthur V Watkins Dam	Transferred	Install new south siphon at A.V. Watkins Dam.	C	\$ 6,000,000						\$ 6,000,000	\$ 6,000,000
Utall	1	WEBER BASIN	zaratur v wataliis Dalii	riansierred	motan new south sipnon at A. v. Watkins Dam.	· ·	9 0,000,000	1	1			+	J 3,000,000	φ 0,000,000
Utah	1	PROJECT	Causey Power Plant	Transferred	Rehabilitation of Causey Powerplant.	E	\$ 6,757,500						\$ 6,757,500	\$ 6,757,500
					Install a parallel (second) pipeline between the bifurcation at the									
					end of the Gateway Tunnel and the Weber Basin water treatment plant at their offices so that the aging 22-mile-long 84-21 inch									
		WEBER BASIN			diameter Davis Aqueduct can be rehabilitated along with						l			
Utah	1	PROJECT	Davis Aqueduct	Transferred	continued replacement of the aging lateral system.	В	\$ 30,000,000						\$ 30,000,000	\$ 30,000,000
		WEDEN STORY			Rehabilitate the aging 22-mile-long 84-21 inch diameter Davis									
Utah	1	WEBER BASIN PROJECT	Davis Aqueduct	Transferred	Aqueduct along with continued replacement of the aging lateral system.	С	\$ 17,037,040						\$ 16,144,640	\$ 16,144,640
Cull	1	WEBER BASIN	Davis requound	ranstrited	a parente.		J 17,037,040	1	1			<b>†</b>	10,144,040	10,144,040
Utah	1	PROJECT	Deep Well Clearfield No 1	Transferred	Rehabilitation of Clearfield No. 1 Deep Well.	E	\$ 1,223,250						\$ 1,223,250	\$ 1,223,250
* Tr. *		WEBER BASIN	D. W.II.OL. T. V.V. T	Tr. 2 :	DILLEG COL CILV. CD. W.	F								
Utah	1	PROJECT WEBER BASIN	Deep Well Clearfield No 2	Transferred	Rehabilitation of Clearfield No. 2 Deep Well.	E	\$ 1,178,750	-	<b> </b>		-	-	\$ 1,178,750	\$ 1,178,750
	1	PROJECT	Deep Well Laytona	T C 1	Rehabilitation of Laytona Deep Well.	E	\$ 1,230,500	1					\$ 1,230,500	\$ 1,230,500

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										Fundi	ng Categories*			
	1	1	1	Transferred /	I	MR&R		Reclamation	Appropriated	1		Non-Federal Financi	ng	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
Utah	1	WEBER BASIN PROJECT	Deep Well North Ogden	Transferred	Rehabilitation of North Ogden Deep Well.	Е	\$ 810,750						\$ 770,500	\$ 770,500 *
Utah	1	WEBER BASIN PROJECT	Deep Well Riverdell	Transferred	Rehabilitation of Riverdell Deep Well.	Е	\$ 1,293,750						\$ 1,230,500	\$ 1,230,500 *
Utah	1	WEBER BASIN PROJECT	Deep Well South Davis	Transferred	Rehabilitation of South Davis Deep Well in Bountiful.	Е	\$ 1,580,425						\$ 1,580,425	\$ 1,580,425 *
Utah	1	WEBER BASIN PROJECT	Deep Well South Weber No 1	Transferred	Rehabilitation of South Weber No. 1 Deep Well	E	\$ 2,541,500						\$ 2,541,500	\$ 2,541,500
Utah	1	WEBER BASIN PROJECT	Deep Well South Weber No 2	Transferred	Rehabilitation of South Weber No. 2 Deep Well.	E	\$ 2,553,000						\$ 2,553,000	\$ 2,553,000 *
		WEBER BASIN												
Utah	1	PROJECT WEBER BASIN	Gateway Canal		Rehabilitation of the 44,600-foot-lone Gateway Canal.	С	\$ 5,976,000						\$ 5,926,000	
Utah	1	PROJECT WEBER BASIN	Gateway Power Plant	Transferred	Rehabilitation of the Gateway Powerplant.	Е	\$ 17,206,450						\$ 16,803,950	\$ 16,803,950 *
Utah	1	PROJECT WEBER BASIN	Layton Canal	Transferred	Rehabilitation of the 79,000-foot-long Layton Canal.	E	\$ 42,845,469						\$ 42,845,469	\$ 42,845,469 *
Utah	1	PROJECT WEBER BASIN	Ogden Valley Canal Pineview Dam (Ogden River	Transferred	Enclosure of 9-mile-long Ogden Valley Canal	С	\$ 15,000,000						\$ 15,000,000	\$ 15,000,000 *
Utah	1	PROJECT	Zoned Earthfill)	Transferred	Rehabilitation of Pineview Dam.	С	\$ 7,500,000						\$ 7,500,000	\$ 7,500,000 *
Utah	1	WEBER BASIN PROJECT	Pineview Dam (Ogden River Zoned Earthfill)	Transferred	Recoat the spillway gates.	Е	\$ 100,000						\$ 100,000	\$ 100,000 *
Utah	1	WEBER BASIN PROJECT	Pineview Dam (Ogden River Zoned Earthfill)	Transferred	Refurbish, recoat, or replace Spiral Staircase in Outlet Works Access Shaft	E	\$ 100,000						\$ 100,000	\$ 100,000 *
Utah	1	WEBER BASIN PROJECT	Weber Aqueduct	Transferred	Rehabilitate aging 4.2-mile-long 48-42 inch aqueduct and the continued replacement of the aging lateral system.	С	\$ 20,000,000						\$ 20,000,000	\$ 20,000,000 *
		WEBER BASIN			Concrete lining of the Willard Canal. The 56,496-foot-long canal is being concrete lined. About 13,400 feet have been concrete lined to date. The remainder of the canal will be lined in approximately 2,000-foot-long sections over the next 21									
Utah	1	PROJECT	Willard Canal	Transferred	years.	D	\$ 58,306,000						\$ 52,440,000	\$ 52,440,000 *
Utah	2	CRSP, FLAMING GORGE UNIT	Flaming Gorge Dam and RESERVOIR	Reserved	Reline Domestic Water Line from Dutch John	D	\$ 2,075,000				\$ 2,000,000			\$ 2,000,000
Utah	2	CRSP, FLAMING GORGE UNIT	Flaming Gorge Power Facility	Reserved	Generator Rewinds	С	\$ 7,565,000				\$ 7,540,000			\$ 7,540,000 *
	_	CRSP, FLAMING			Modernize the unit and plant level control systems in the Fontenelle, Blue Mesa, Crystal, Morrow Point, Flaming Gorge,									
Utah	2	GORGE UNIT CRSP, FLAMING	Flaming Gorge Power Facility	Reserved	and Glen Canyon powerplants.	В	\$ 5,231,293				\$ 3,200,000			\$ 3,200,000 *
Utah	2	GORGE UNIT CRSP, FLAMING	Flaming Gorge Power Facility	Reserved	Replace Boiler in Powerplant	Е	\$ 200,000				\$ 200,000			\$ 200,000 *
Utah	2	GORGE UNIT CUP,	Flaming Gorge Power Facility Currant Creek Dam (Currant	Reserved	Replace Vibration Monitoring System	В	\$ 200,000				\$ 200,000			\$ 200,000 *
Utah	2	BONNEVILLE UNIT CUP,	Creek Zoned Earthfill Embankment) Currant Creek Dam (Currant	Transferred	Right toe drain replacement	E	\$ 500,000						\$ 500,000	\$ 500,000 *
Utah	2	BONNEVILLE UNIT	Creek Zoned Earthfill Embankment)	Transferred	Replace emergency generator.	E	\$ 50,000						\$ 50,000	\$ 50,000 *
		CUP, BONNEVILLE	Currant Creek Dam (Currant Creek Zoned Earthfill											
Utah	2	UNIT CUP,	Embankment)	Transferred	Replace gate operating systems	D	\$ 165,000						\$ 165,000	\$ 165,000 *
Utah	2	BONNEVILLE UNIT	Hades Tunnel	Transferred	Concrete repairs	D	\$ 400,000						\$ 400,000	\$ 400,000 *
Utah	2	CUP, BONNEVILLE UNIT	Jordanelle Dam and Reservoir	Transferred	Replace two 72-inch butterfly valves.	D	\$ 750,000						\$ 750,000	\$ 750,000 *
Utah	2	CUP, BONNEVILLE UNIT CUP,	Jordanelle Dam and Reservoir	Transferred	Re-coating of outlet bypass piping.	Е	\$ 300,000						\$ 300,000	\$ 300,000 *
Utah	2	BONNEVILLE UNIT CUP,	Jordanelle Dam and Reservoir	Transferred	Re-coating of radial gates.	Е	\$ 200,000						\$ 200,000	\$ 200,000 *
Utah	2	BONNEVILLE UNIT CUP,	Jordanelle Dam and Reservoir	Transferred	Hazard mitigation (Lightning protection on federal buildings)	Е	\$ 200,000						\$ 100,000	\$ 100,000
Utah	2	BONNEVILLE UNIT CUP,	Jordanelle Dam and Reservoir Knight Diversion Dam	Transferred	Recoat outlet piping after unbalanced head test.	Е	\$ 435,000						\$ 350,000	\$ 350,000 *
Utah	2	BONNEVILLE UNIT CUP,	(Formerly Starvation Feeder Canal Diversion Dam)	Transferred	Replace Gate Actuators	E	\$ 50,000						\$ 50,000	\$ 50,000 *
		BONNEVILLE	I	l	I	l		1	1	l	1		1	I I

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										Fundin	g Categories*			
6	Congressional	Authorized	A AN	Transferred / Reserved	Dien ist ewill had	MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Appropriated  Reclamation Dam	Other	Power	Non-Federal Financia Reserved Works	Operating	Estimated 30-Year
State	District	Project CUP.	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		BONNEVILLE												
Utah	2	UNIT	Rhodes Diversion Dam	Transferred	Replace gate operators (Rhodes, Win, and Docs)	D	\$ 50,000						\$ 50,000	\$ 50,000
		CUP, BONNEVILLE	Soldier Creek Dam (Strawberry River Zoned											
Utah	2	UNIT	Earthfill)	Transferred	Replace Piezometers	E	\$ 100,000						\$ 100,000	\$ 100,000
		CUP,	Soldier Creek Dam										,	200,000
		BONNEVILLE	(Strawberry River Zoned			_								
Utah	2	UNIT CUP,	Earthfill) Starvation Dam and Reservoir	Transferred	Recoat gate bonnets in upper and lower gate chambers	D	\$ 75,000					<b></b>	\$ 75,000	\$ 75,000
		BONNEVILLE	(Strawberry River Zoned											
Utah	2	UNIT	Earthfill)	Transferred	Repair of Upstream Face Soil Cement Cap	D	\$ 10,000,000						\$ 10,000,000	\$ 10,000,000
		CUP,	Starvation Dam and Reservoir								·			
TIALL	2	BONNEVILLE UNIT	(Strawberry River Zoned Earthfill)	T	Spillway Concrete	C	£ 150,000						£ 150,000	£ 150,000
Utah	2	CUP,	Earthill)	Transferred	Spillway Concrete	C	\$ 5,150,000						\$ 5,150,000	\$ 5,150,000
		BONNEVILLE												
Utah	2	UNIT	Stillwater Tunnel	Transferred	Replace high voltage power line	E	\$ 2,000,000						\$ 2,000,000	\$ 2,000,000
		CUP, BONNEVILLE												
Utah	2	UNIT	Syar Inlet	Transformed	Repaint entire structure	Е	\$ 800,000						\$ 400,000	\$ 400,000
Ctan		CUP,	oja and	ransicited	repain onne structure	-	500,000		†			†	¥ 400,000	+00,000
		BONNEVILLE		1							1	,		
Utah	2	UNIT	Upper Stillwater Dam	Transferred	Rebuild sleeve valves	D	\$ 500,000					ļ	\$ 500,000	\$ 500,000
		CUP, BONNEVILLE		1	Sand blast and recoat interior of 72-inch pipeline bewtween GGS and PCS, exterior metal in 54-inch butterfly valve						I	,		
Utah	2	UNIT	Upper Stillwater Dam	Transferred	structure, and flow measuring structure.	E	\$ 375,000						\$ 375,000	\$ 375,000
		CUP,					2,2,300	İ	1				-,-,.00	2.2,300
		BONNEVILLE	L	_	L		_				1	1		
Utah	2	UNIT	Upper Stillwater Dam	Transferred	Repair concrete in stilling basin.	Е	\$ 175,000				·	<u> </u>	\$ 175,000	\$ 175,000
		CUP, BONNEVILLE												
Utah	2	UNIT	Upper Stillwater Dam	Transferred	Concrete repairs in overflow structure.	E	\$ 75,000						\$ 75,000	\$ 75,000
		CUP,												
		BONNEVILLE				_								
Utah	2	UNIT CUP,	Upper Stillwater Dam	Transferred	Replace emergency generator.	E	\$ 55,000					<del> </del>	\$ 55,000	\$ 55,000
		BONNEVILLE												
Utah	2	UNIT	Upper Stillwater Dam	Transferred	Replace Field Station Storage Garage.	E	\$ 25,000						\$ 25,000	\$ 25,000
		CUP,									ı			
Utah		BONNEVILLE UNIT				E	\$ 145,000						\$ 145,000	\$ 145,000
Utah	2	CUP,	Upper Stillwater Dam	Transferred	Replace spiral staircase.	Е	\$ 145,000						\$ 145,000	\$ 145,000
		BONNEVILLE												
Utah	2	UNIT	Vat Diversion Dam	Transferred	Replace Butterfly Valves 66"	E	\$ 400,000						\$ 400,000	\$ 400,000
		CUP,												
Utah	2	BONNEVILLE UNIT	Vat Diversion Dam	Transferred	Flow measurement replacement	E	\$ 150,000						s 150,000	\$ 150,000
Otali		UNII	vat Diversion Dam	Hansiered	Install cathodic protection on the section of mortar coated steel	ь.	3 130,000					+	3 130,000	\$ 150,000
		CUP, JENSEN			pipe that goes under Red Fleet reservoir on the Tyzack									
Utah	2	UNIT	Tyzack Aqueduct	Transferred	Aqueduct.	D	\$ 120,000						\$ 120,000	\$ 120,000
Utah	2	CUP, VERNAL UNIT	Fort Thornburgh Diversion Dam	Transferred	Repair damaged river overflow weir		\$ 300,000						\$ 300,000	\$ 300,000
Utan	- 2	CUP, VERNAL	Steinaker Dam and Reservoir	Transferred	Kepan damaged river overnow wen	E	\$ 300,000					-	\$ 300,000	\$ 500,000
Utah	2	UNIT	(Off stream Zoned Earthfill)	Transferred	Pressurize the outlet works	D	\$ 10,000,000	<u> </u>	<u>                                      </u>			ļ	\$ 10,000,000	\$ 10,000,000
		CUPCA												
TT4-1	_	BONNEVILLE UNIT	Ti C 1	тс .	C10-6th in		6 (51(000					,	6 2216.000	0.017.000
Utah		CUPCA	Timpanogos Canal	Transferred	Canal Safety improvements - 3,000 LF	D	\$ 6,516,000		1				\$ 2,216,000	\$ 2,216,000
		BONNEVILLE									1	1		
Utah	2	UNIT	Timpanogos Canal	Transferred	Canal cave enclosure and lining 350 LF	E	\$ 190,000				<u></u>		\$ 75,000	\$ 75,000
		CUPCA												
Utah	,	BONNEVILLE UNIT	Timpanogos Pumping Stations and Distribution Systems	Transferred	Enclosure and ventilation	F	\$ 275,000					,	s 275.000	\$ 275,000
Otdii	-	CUPCA	and Distribution Systems	ranstrited	Enclosure and ventuation	ь	273,000		<b>†</b>				y 273,000	273,000
		BONNEVILLE	Timpanogos Pumping Stations								1	1		
Utah	2	UNIT	and Distribution Systems	Transferred	Station piping coatings T2, T5, T6, DRP	E	\$ 220,000		<u> </u>		<b>,</b>		\$ 220,000	\$ 220,000
		CUPCA BONNEVILLE	Timpanogos Pumping Stations	1							I	,		
Utah	2	UNIT	and Distribution Systems	Transferred	Replace pump motors.	Е	\$ 214,500				1	1	\$ 181,500	\$ 181,500
	T -	CUPCA			1 1		211,500		1				. 101,500	. 101,300
		BONNEVILLE	Timpanogos Pumping Stations	1								,		
Utah	2	UNIT	and Distribution Systems	Transferred	Main pump actuators	Е	\$ 132,000		1			-	\$ 99,000	\$ 99,000
		CUPCA BONNEVILLE									1	1		
Utah	2	UNIT	Upper Diamond Fork Tunnel	Transferred	Pig launch modification.	E	\$ 100,000				I	,	\$ 100,000	\$ 100,000
		EMERY			g		. 100,000		<b>i</b>				. 100,000	. 100,000
	ì	COUNTY	Cottonwood Creek Huntington	l	I	Ì		l			. '	1		ı
Utah		PROJECT	Canal		Major Rehabilitation of 11-1/2 miles of canal lining are needed.	D	\$ 12,000,000						\$ 11,000,000	\$ 11,000,000

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										Fundin	g Categories*			
	1		1	Transferred /	T	MR&R		Reclamation	Appropriated			Non-Federal Financir	ng I	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		EMERY COUNTY	Cottonwood Creek Huntington											
Utah	2	PROJECT PROVO RIVER	Canal	Transferred	Install a new canal undershot to pass cross drainage flows	D	\$ 200,000						\$ 200,000	\$ 200,000
Utah Utah	2	PROJECT PROVO RIVER PROJECT	Deer Creek Power Plant  Deer Creek Power Plant	Reserved	Generator Rewinds Static Exciters Replacement	С	\$ 2,050,000 \$ 450,000	\$ 2,000,000 \$ 450,000						\$ 2,000,000 \$ 450,000
Utah	2	WEBER BASIN PROJECT	Causey Dam	Reserved	Rehabilitation of Causey Dam.	С	\$ 450,000 \$ 7,500,000	\$ 450,000					\$ 7,500,000	\$ 450,000 \$ 7,500,000
Utah	2	WEBER BASIN PROJECT	Causey Dam	Transferred	Micro-Hydro Power Unit installation.	D	\$ 500,000						\$ 500,000	\$ 500,000
		WEBER BASIN	East Canyon Dam (East Canyon Creek Concrete Thin											
Utah	2	PROJECT WEBER BASIN	Arch)  Lost Creek Dam and Reservoir	Transferred	Rehabilitation of East Canyon Dam.	С	\$ 7,500,000						\$ 7,500,000	\$ 7,500,000
Utah	2	PROJECT WEBER BASIN	(Lost Creek Zoned Earthfill) Wanship Dam (Weber River	Transferred	Rehabilitation of Lost Creek Dam.	С	\$ 7,500,000						\$ 7,500,000	\$ 7,500,000
Utah	2	PROJECT WEBER BASIN	Zoned Earthfill)	Transferred	Rehabilitation of Wanship Dam.	С	\$ 7,500,000						\$ 7,500,000	\$ 7,500,000
Utah	2	PROJECT CUP,	Wanship Power Plant	Transferred	Rehabilitation of Wanship Powerplant.	Е	\$ 221,500						\$ 221,500	\$ 221,500
Utah	3	BONNEVILLE UNIT	Alpine Aqueduct (Reach 1 2 2a 2b 3 4 and N Branch)	Transferred	Butterfly valve replacement	D	\$ 300,000						\$ 300,000	\$ 300,000
Utah	3	CUP, BONNEVILLE UNIT	Alpine Aqueduct (Reach 1 2 2a 2b 3 4 and N Branch)	Transferred	Electromagnetic pipe survey.	E	\$ 300,000						\$ 300,000	\$ 300,000
Otan		CUP, BONNEVILLE	Alpine Aqueduct (Reach 1 2	Transicired	interestingues pipe survey.	L	3 300,000						300,000	3 300,000
Utah	3	UNIT CUP,	2a 2b 3 4 and N Branch)	Transferred	Easement tree removal	Е	\$ 170,000						\$ 70,000	\$ 70,000
Utah	3	BONNEVILLE UNIT CUP.	Alpine Aqueduct (Reach 1 2 2a 2b 3 4 and N Branch)	Transferred	Instrument replacement	Е	\$ 140,000						\$ 70,000	\$ 70,000
Utah	3	BONNEVILLE UNIT	Alpine Aqueduct (Reach 1 2 2a 2b 3 4 and N Branch)	Transferred	Cathodic Protection	E	\$ 70,000						\$ 35,000	\$ 35,000
		CUP, BONNEVILLE	Olmsted Diversion Dam and											
Utah	3	UNIT CUP,	Screening Structure	Transferred	Hazard mitigation (Avalanche control building roof risk)	Е	\$ 660,000						\$ 330,000	\$ 330,000
Utah	3	BONNEVILLE UNIT CUP,	Olmsted Diversion Dam and Screening Structure	Transferred	Control gate modification	Е	\$ 300,000						\$ 300,000	\$ 300,000
Utah	3	BONNEVILLE UNIT	Olmsted Diversion Dam and Screening Structure	Transferred	Overhaul trash rake hydraulic system.	E	\$ 100,000						\$ 100,000	\$ 100,000
		CUP, BONNEVILLE	Olmsted Diversion Dam and											
Utah	3	UNIT CUP,	Screening Structure	Transferred	Replace emergency generator.	E	\$ 75,000						\$ 75,000	\$ 75,000
Utah	3	BONNEVILLE UNIT CUP,	Olmsted Flowline	Transferred	Re-coating of 55 degree pipe - Canyon Glen	С	\$ 500,000						\$ 500,000	\$ 500,000
Utah	3	BONNEVILLE UNIT	Olmsted Flowline	Transferred	Paint outside of above ground pipe.	E	\$ 150,000						\$ 150,000	\$ 150,000
		CUP, BONNEVILLE												
Utah	3	UNIT CUP, BONNEVILLE	Olmsted Flowline	Transferred	Instrument replacement and new Maple Springs	E	\$ 280,000						\$ 140,000	\$ 140,000
Utah	3	UNIT CUP,	Sixth Water Aqueduct	Transferred	Repaint entire pipeline	Е	\$ 500,000						\$ 500,000	\$ 500,000
Utah	3	BONNEVILLE UNIT	Sixth Water Aqueduct	Transferred	Cathodic Protection system upgrade	E	\$ 100,000						\$ 50,000	\$ 50,000
	_	CUP, BONNEVILLE	Sixth Water Flow Control											
Utah	3	UNIT CUP, BONNEVILLE	Sixth Water Flow Control	Transferred	Slope Protection	E	\$ 1,000,000						\$ 1,000,000	\$ 1,000,000
Utah	3	UNIT CUP,	Structure Structure	Transferred	Ultrasonic Flow Meter Replacement	Е	\$ 150,000						\$ 150,000	\$ 150,000
Utah	3	BONNEVILLE UNIT	Sixth Water Flow Control Structure	Transferred	Replace stainless steel liners	E	\$ 100,000						\$ 100,000	\$ 100,000
Utah	,	CUP, BONNEVILLE UNIT	Symp Wast Gate	Trongform	Install generator	C	\$ 70,000						s 70,000	\$ 70,000
∪tah	3	CUP, BONNEVILLE	Syar West Gate	Transferred	Install generator	C	> 70,000						\$ 70,000	\$ 70,000
Utah	3	UNIT	Water Hollow Diversion Dam	Transferred	Wing wall repair	Е	\$ 500,000						\$ 500,000	\$ 500,000

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										Fundir	g Categories*			]
				I	T	Lanen	1	Reclamation	Appropriated			Non-Federal Financi	ng	
State	Congressional District	Authorized Project	Asset Name	Transferred / Reserved Works	Brief Description of Work Needed	MR&R Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		CUPCA			•				·		Ü			
Utah	3	BONNEVILLE UNIT	Diamond Fork Creek Outlet	Transferred	Pig launch modification	E	\$ 100,000						\$ 100,000	\$ 100,000
		CUPCA												
77. 1	2	BONNEVILLE UNIT	Diamond Fork Pipeline	T. C. 1	Paint vaults	r								\$ 80,000
Utah	3	CUPCA	Diamond Fork Pipeline	Transferred	Paint vauits	Е	\$ 80,000						\$ 80,000	\$ 80,000
		BONNEVILLE												
Utah	3	UNIT CUPCA	Humbug Canal	Transferred	Canal Safety improvements - 3,000 LF	D	\$ 4,417,000						\$ 4,417,000	\$ 4,417,000 *
		BONNEVILLE												
Utah	3	UNIT	Humbug Canal	Transferred	Center St. to North Lake Creek Lining - 600 LF	E	\$ 276,000						\$ 276,000	\$ 276,000 *
		CUPCA BONNEVILLE												
Utah	3	UNIT	Humbug Canal	Transferred	Enclosure and ventilation	E	\$ 165,000						\$ 165,000	\$ 165,000 *
		CUPCA												
Utah	3	BONNEVILLE UNIT	Humbug Canal	Transferred	Pump motors (4) 100 - 200 hp	D	\$ 66,000						\$ 66,000	\$ 66,000 *
Otan	,	CUPCA	ridinodg Canai	Transierred	1 dilip iliotois (4) 100 - 200 lip	В	3 00,000						3 00,000	5 00,000
	_	BONNEVILLE				_								
Utah	3	UNIT CUPCA	Humbug Canal	Transferred	Concrete repair Timp East and Valley Hills Lining	Е	\$ 85,000						\$ 40,000	\$ 40,000
		BONNEVILLE												
Utah	3	UNIT	Humbug Ponds	Transferred	Flood channel bypass from regulation pond	D	\$ 100,000						\$ 100,000	\$ 100,000 *
		CUPCA BONNEVILLE	Spanish Fork Flow Control											
Utah	3	UNIT	Structure Structure	Transferred	Rebuild/reposition cone valves	С	\$ 300,000						\$ 300,000	\$ 300,000 *
		CUPCA												
Utah	3	BONNEVILLE UNIT	Upper Diamond Fork Flow Control Structure	Transferred	Add air handling system to address H2S gas issue	Е	\$ 500,000						\$ 250,000	\$ 250,000 *
Otan	,	CUPCA	Control Structure	Transferred	Add an nandring system to address 1123 gas issue	E	3 500,000						3 230,000	3 250,000
		BONNEVILLE	Upper Diamond Fork Flow											
Utah	3	UNIT CUPCA	Control Structure	Transferred	Pipe H2S springs adjacent to structure	D	\$ 250,000						\$ 250,000	\$ 250,000 *
		BONNEVILLE	Upper Diamond Fork Flow											
Utah	3	UNIT	Control Structure	Transferred	Replace Backup Generator	E	\$ 180,000						\$ 180,000	\$ 180,000 *
		CUPCA BONNEVILLE	Upper Diamond Fork Flow											
Utah	3	UNIT	Control Structure	Transferred	Paint vortex shaft	E	\$ 120,000						\$ 120,000	\$ 120,000
		CUPCA												
Utah	3	BONNEVILLE UNIT	Upper Diamond Fork Flow Control Structure	Transferred	Replace metal and wiring	E	\$ 180,000						\$ 90,000	s 90,000 *
Otan	,	CUPCA	Control Structure	Transierred	replace metal and wiring	L	3 100,000					1	3 70,000	3 70,000
*** *	3	BONNEVILLE												
Utah	3	UNIT	Wasatch Pumping Stations	Transferred	Enclosure and ventilation.	Е	\$ 165,000						\$ 165,000	\$ 165,000 *
		PROVO RIVER	Deer Creek Dam and Reservoir											
Utah	3	PROJECT	(Provo River Zoned Earthfill)	Transferred	Add a SLOW intake tower.	D	\$ 40,000,000						\$ 40,000,000	\$ 40,000,000
		PROVO RIVER	Deer Creek Dam and Reservoir											
Utah	3	PROJECT	(Provo River Zoned Earthfill)	Transferred	Replace operators on spillway gates.	В	\$ 139,000	\$ 69,500					\$ 69,500	\$ 139,000 *
		nn ou o nu mn												
Utah	3	PROVO RIVER PROJECT	Deer Creek Dam and Reservoir (Provo River Zoned Earthfill)	Transferred	Replace the Tube Valves	С	\$ 1,638,300	\$ 69,150					\$ 69,150	\$ 138,300
	,	PROVO RIVER	<u> </u>					0,,130				1		
Utah	3	PROJECT	Duchesne Diversion Dam	Transferred	Rehabilitate Duchesne Diversion Dam Gate	E	\$ 125,000						\$ 125,000	\$ 125,000 *
Utah	3	PROVO RIVER PROJECT	Duchesne Diversion Dam	Transferred	Replace the sluiceway wall that is leaning in towards the flow.	E	S 100,000					1	s 100,000	S 100,000
		PROVO RIVER			South Lateral Canal: Repair the concrete lining in the area of Sta							1		
Utah	3	PROJECT	South Lateral	Transferred	21+00 and Sta 138+00.	С	\$ 200,000					ļ	\$ 200,000	\$ 200,000 *
Utah	3	PROVO RIVER PROJECT	Weber Provo Diversion Canal	Transferred	Line or pipe the canal to prevent seepage.	С	\$ 50,000,000			1		ĺ	\$ 50,000,000	\$ 50,000,000 *
Can	,	PROVO RIVER		ransiered	Installation of fiber along canal to connect control and							1		
Utah	3	PROJECT	Weber Provo Diversion Canal	Transferred	monitoring facilities	D	\$ 1,900,000	ļ	ļ				\$ 1,900,000	\$ 1,900,000 *
Utah	3	PROVO RIVER PROJECT	Weber Provo Diversion Canal	Transferred	Replace the existing measurement structure and control building at the end of the canal.	Е	\$ 325,000					ĺ	\$ 325,000	\$ 325,000 *
					Reconstruct the incorrectly installed Glen Gibbons Check		,500						,	,
T 14. 1	_	PROVO RIVER PROJECT	Wahan Danna Di i G	T C .	Structure. Water backs up to the Parshall flume due to incorrect	E	e 222.000			1		ĺ	\$ 233,000	6 222.000
Utah	3	PROJECT PROVO RIVER	Weber Provo Diversion Canal	Transferred	construction elevation.  Install a low flow bypass off the main diversion weir in the river	Е	\$ 233,000	1	1	-		<del> </del>	a 233,000	\$ 233,000 *
Utah	3	PROJECT	Weber Provo Diversion Canal	Transferred	that would be metered.	D	\$ 341,000	\$ 95,500					\$ 95,500	\$ 191,000
116.1	2	PROVO RIVER	Wahan Danna Di i i i i i i	T C .	Rehabilitate the Beaver Creek Undershot under the Weber Provo	E	\$ 128,000			1			6 100.000	\$ 128,000 *
Utah	3	PROJECT STRAWBERRY	Weber Provo Diversion Canal	Transferred	Diversion Canal.	Е	s 128,000	1	1	-		<del> </del>	\$ 128,000	a 128,000 <sup>a</sup>
		VALLEY		1						1		ĺ	I	[
Utah	3	PROJECT STRAWBERRY	Highline Canal and Laterals	Transferred	Enclose the entire canal	A	\$ 140,000,000					-	\$ 140,000,000	\$ 140,000,000 *
		VALLEY			Pipe the open ditch lateral to better utilize project water in an							ĺ		
Utah	3	PROJECT	Highline Canal and Laterals	Transferred	expanding urbanized area.	D	\$ 2,800,000			<u> </u>			\$ 2,800,000	\$ 2,800,000 *

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Appendix

										Fundir	g Categories*			
		1	_	Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financia	ng	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		STRAWBERRY												
***		VALLEY												
Utah	3	PROJECT STRAWBERRY	Highline Canal and Laterals	Transferred	Rehabilitate the Peteetneet Diversion on the Canal	E	\$ 200,000						\$ 200,000	\$ 200,000 *
		VALLEY			Replace forebay structure at the end of the Strawberry Power									
Utah	3	PROJECT	Strawberry Power Canal	Transferred	Canal	C	\$ 2,000,000						\$ 2,000,000	\$ 2,000,000
		STRAWBERRY VALLEY												
Utah	3	PROJECT	Strawberry Tunnel	Transferred	Strawberry tunnel repair	D	s 10,000,000						\$ 10,000,000	\$ 10,000,000 *
		STRAWBERRY			,									
***		VALLEY				F								
Utah	3	PROJECT WEBER BASIN	Strawberry Tunnel	Transferred	Replace Flow Measurement at West Portal Reroute the entrance to the park to prevent traffic from blocking	E	\$ 100,000						\$ 100,000	\$ 100,000 *
Utah	3	PROJECT	Willard Bay Recreation Area	Transferred	the entry and exit lanes on the freeway.	C	\$ 4,000,000						\$ 4,000,000	\$ 4,000,000 *
					Repair of Breakwater at Willard Bay State Park Marina									
					Widening of Breakwater Enlarging of Parking lot on Breakwater									
		WEBER BASIN			Raise or protection of roads and campsites in Willow Creek									
Utah	3	PROJECT	Willard Bay Recreation Area	Transferred	Campground	В	\$ 2,000,000			\$ 1,800,000				\$ 1,800,000 *
Utah	2	WEBER BASIN PROJECT	Willard Bay Recreation Area	Transferred	To widen and repaye the road in Willow Creek Campground.	D	\$ 405,175						\$ 405,175	\$ 405,175 *
Utan	3	CUPCA	Willard Bay Recreation Area	Transferred	To widen and repave the road in willow Creek Campground.	Б	\$ 405,175						\$ 405,173	\$ 405,175
		BONNEVILLE												
Utah	4	UNIT	Timpanogos Ponds	Transferred	Regulation pond enlargement.	D	\$ 600,000						\$ 600,000	\$ 600,000 *
Washington	4	COLUMBIA BASIN PROJECT	Bacon Tunnel and Siphon	Reserved	Bacon Siphon 1 & 2 - Concrete approach apron floor rehabilitation (losing top layer and will eventually need repair)	D	\$ 1,000,000					s 1,000,000		\$ 1,000,000 *
washington	4	COLUMBIA	Billy Clapp Lake Summer	Reserved	renabilitation (losing top layer and will eventually need repair)	Б	3 1,000,000					3 1,000,000		3 1,000,000
Washington	4	BASIN PROJECT	Falls RW REC	Reserved	Summer Falls Day Use Area Rehabilitation	В	\$ 3,000,000			\$ 2,980,000				\$ 2,980,000 *
					Under PL 89-72 as amended by PL 102-575, Title 28 requires									
					Reclamation cost share with Washington Department of Fish &									
					Wildlife (WDFW) to manage the desert wildlife									
					area. WDFW has requested a \$100,000 O&M cost share for FY 2022 (WDFW will provide \$50,000 and Reclamation will match									
					\$50,000) for the following actions: 1.) Maintain water access									
					sites (boat launches, fishing piers, vault toilets) on Reclamation									
					property. 2.) Maintain water access sites and access roads, and									
					reduce wildfire risk, by applying residual chemical to roads and parking areas to keep areas vegetation-free. 3.) Vegetation									
					management on Reclamation-owned portions of the Columbia									
					Basin Wildlife Area through fall aerial herbicide application									
					which includes phragmites control on wasteways and other									
					noxious weeds as needed. 4.) Cover costs associated with Law Enforcement on Reclamation lands in order to ensure public									
		COLUMBIA	Desert Wildlife Area WDFW		health & safety by minimizing criminal activities such as									
Washington	4	BASIN PROJECT	REC	Transferred	vandalism, dumping, and gang activity.	В	\$ 500,000	\$ 200,000					\$ 200,000	\$ 400,000 *
***		COLUMBIA BASIN PROJECT	Drains Block 1	Transferred	D: D (G1 1: D: D : (D : )		\$ 5,989,893	s 4.734.810						\$ 4.734.810 *
Washington	4	COLUMBIA	Dry Falls (south) Dam and	Transferred	Drainage Program (Columbia River Project Drains)  Treat corrosion cells and recoat or spot coat repair the spillway	E	\$ 5,989,893	\$ 4,734,810						\$ 4,/34,810 *
Washington	4	BASIN PROJECT	Banks Lake	Reserved	radial gates as needed.	E	\$ 115,000	\$ 46,000				\$ 69,000		\$ 115,000 *
		COLUMBIA	Dry Falls (south) Dam and			_								
Washington	4	BASIN PROJECT	Banks Lake	Reserved	Re gravel access road below Dry Falls Dam.  Dry Falls Dam - Repair the concrete patches on the downstream	D	\$ 175,000	1	<del>                                     </del>	\$ 100,000			<del>                                     </del>	\$ 100,000 *
1		COLUMBIA	Dry Falls (south) Dam and		canal transition training walls where the epoxy patches have				I	1			1	
Washington	4	BASIN PROJECT	Banks Lake	Reserved	separated from the concrete.	E	\$ 25,000					\$ 25,000		\$ 25,000 *
Washington	4	COLUMBIA BASIN PROJECT	East Low Canal (all sections)	Transferred	11ELL0003: EL 20 Bridge - Remove or Replace the bridge structure		\$ 50,000		_	1			\$ 50,000	\$ 50,000 *
wasnington	4	COLUMBIA	East Low Canal (all sections)	ransterred	11ELL0007: EL 29 Bridge - Remove or Replace the bridge		\$ 50,000	<del> </del>	<del>                                     </del>				\$ 50,000	\$ 50,000 *
Washington	4	BASIN PROJECT	East Low Canal (all sections)	Transferred	structure	С	\$ 50,000	<u> </u>	<u></u>				\$ 50,000	\$ 50,000 *
W 1	4	COLUMBIA	F 41 0 147 1	Tr. 0	11ELL0209: EL 29 Bridge - Remove or Replace the bridge	С				1				
Washington	4	BASIN PROJECT COLUMBIA	East Low Canal (all sections)	Transferred	structure 11ELL0211: EL 29 Bridge - Remove or Replace the bridge	С	\$ 50,000	1	<del>                                     </del>	-			\$ 50,000	\$ 50,000 *
Washington	4	BASIN PROJECT	East Low Canal (all sections)	Transferred	structure	C	\$ 50,000		1				\$ 50,000	\$ 50,000 *
-		COLUMBIA	i i		11ELC0013: ROCKY COULEE WASTEWAY-BAILEY									
Washington	4	BASIN PROJECT COLUMBIA	East Low Canal (all sections)	Transferred	BRIDGE -Replace the wooden deck 11ELC0004: EAST LOW CANAL - MILE 13.5 MAINT RD	D	\$ 15,000	1	<b>.</b>				\$ 15,000	\$ 15,000 *
Washington	4		East Low Canal (all sections)	Transferred	BRIDGE - Rehabilitate, Remove, or Permanently Close Bridge	С	\$ 10,000		1				\$ 10,000	\$ 10,000 *
	,	COLUMBIA							1				25,000	
Washington	4	BASIN PROJECT	EPHRATA FIELD OFFICE	Reserved	SCADA Modernization (Ephrata - Columbia Basin Project)	В	\$ 5,414,099	\$ 5,372,660	ļ				ļ	\$ 5,372,660 *
Washington	4	COLUMBIA BASIN PROJECT	Main Canal (all sections)	Reserved	Main Canal Trail Lake Section rehabilitation	В	\$ 4.677.229		1	\$ 860,000		\$ 2,924,000		\$ 3,784,000
11 ashington	*	COLUMBIA	Cumar (uni sections)	Reserveu			,,,,,	1	<u> </u>	J 500,000			1	
Washington	4	BASIN PROJECT	North Dam	Reserved	CBP - LRM - T28 - North Dam Park Improvements	D	\$ 350,000	\$ 50,000				\$ 50,000		\$ 100,000 *
Washington	4	COLUMBIA BASIN PROJECT	ODAIR TRANSSHIPMENT BUILDING	Reserved	CBP - Odair Transfer-Shipping Building Refurbishment	В	\$ 4,000,000	\$ 272,500	I	1	\$ 3,223,500		I	\$ 3,496,000 *
vv asnington	4	COLUMBIA	DOLLDING	reserveu	CDI - Guait Transfer-ompping building Returbishment	Ω	9 4,000,000	φ 2/2,300	<del>                                     </del>	<b> </b>	000,022, س		t	3,490,000
Washington	4	BASIN PROJECT	OSullivan Dam and Reservoir	Reserved	O'Sullivan Dam - Repair Outlet Works Wingwall	D	\$ 1,800,000	\$ 1,600,000					<u> </u>	\$ 1,600,000

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											Fundin	g Categories*			İ
	•									Appropriated			Non-Federal Financin	g	
				Transferred /		MR&R	TD 45 4	1.00 . 1	Reclamation	D 1 ( D	04		D 137/1		E C 4 120 V
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Cos		Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	Troject	Asset Name	WOLKS	Construction a single lane road along the downstream toe of	Rating	Cos		Sarcty	Sarcty	reucrai	rmaneng	water esers	1 artifers	MIKKER Total
		COLUMBIA			O'Sullivan Dam between the abandoned outlet works at Station										
Washington	4	BASIN PROJECT	OSullivan Dam and Reservoir	Reserved	177+00 and left end of Potholes dam (station 194+00).	C	\$	500,000	\$ 100,000		\$ 400,000				\$ 500,000
		COLUMBIA	Pinto Dam Reservoir			_									
Washington	4	BASIN PROJECT COLUMBIA	Headworks Pinto Dam Reservoir	Reserved	Potholes Supplemental Feed Route Pinto Dam - remove outlet works radial gates (3 - 25ftx25ft) to	В	\$ 6	,899,000	\$ 2,958,000						\$ 2,958,000
Washington	4	BASIN PROJECT		Reserved	clean, recoat, and rebuild	D	s	500,000					\$ 500,000		\$ 500,000
washington				reserved				500,000					500,000		300,000
***	4	COLUMBIA			DRY 40 W										
Washington	4	BASIN PROJECT COLUMBIA	Potholes Canal	Reserved	PPL 5.8 Wasteway Improvements 11PECL0087 - PEC 16.4M12 WW STATION 30+20 -	A	\$	,083,135	\$ 430,880						\$ 430,880
Washington	4	BASIN PROJECT	Potholes Canal	Reserved	Rehabilitate, Remove, or Permanently Close Bridge	C	S	25,000						\$ 25,000	\$ 25,000 °
		COLUMBIA			11PECL0083 - PEC 16.4 STATION 0136+88 - Replace										
Washington	4	BASIN PROJECT	Potholes Canal	Reserved	downstream facia girder or remove or permanently close bridge	С	\$	20,000						\$ 20,000	\$ 20,000
Washington	4	COLUMBIA BASIN PROJECT	Potholes Canal	Reserved	11PECL0024 - POTHOLES EAST CANAL LAT - STA 102+57 - Replace deteriorated wood beams	D	s	10,000						\$ 10,000	\$ 10,000
washington	4	COLUMBIA	rotitoles Caliai	Reserved	11PECL0077: POTHOLES EAST CANAL LATERAL 46A	ь	3	10,000						3 10,000	3 10,000
Washington	4	BASIN PROJECT	Potholes Canal	Reserved	WW - Remove bridge	C	S	10,000						\$ 10,000	\$ 10,000
		COLUMBIA	Wahluke Branch Canal (all		11PEC0037: P.C. WALUKE BRANCH - NOWHERE BRIDGE										
Washington	4	BASIN PROJECT	sections)	Transferred	#2 - Make necessary concrete/structural repairs	Е	S	10,000						\$ 10,000	\$ 10,000
Washington	4	COLUMBIA BASIN PROJECT	West Canal (All Sections)	Transferred	11WC0140 - WEST CANAL W20F STA 209+50 - Rehabilitate, Remove, or Permanently Close Bridge	C	s	20,000						\$ 20,000	\$ 20,000
asimigion	-	COLUMBIA	Canai (zui occuons)	ranstrited	11WC0150 - WEST CANAL, LAT W26C BRIDGE-STA	<b>—</b> ~	,	20,000						20,000	20,000
Washington	4	BASIN PROJECT	West Canal (All Sections)	Transferred	117+60 - Install crash-tested safety railing	С	s	10,000						\$ 10,000	\$ 10,000
		COLUMBIA			11WC0151 - W26C STATION 131+60 - Install crash-tested										
Washington	4	BASIN PROJECT COLUMBIA	West Canal (All Sections)	Transferred	safety railing	C	S	10,000						\$ 10,000	\$ 10,000
Washington	4		West Canal (All Sections)	Transferred	11WC0152 - W26C STATION 184+49 - Install crash-tested safety railing	C	s	10,000						\$ 10,000	\$ 10,000
** asimigion	7	COLUMBIA	west Canal (All Sections)	Hansterred	11WC0153 - W26C STATION 197+60/198 - Install crash-	- C	3	10,000						3 10,000	3 10,000
Washington	4		West Canal (All Sections)	Transferred	tested safety railing	C	S	10,000						\$ 10,000	\$ 10,000
		COLUMBIA			11WC0250 - WEST CANAL, LATERIAL W39.9 BRIDGE -										
Washington	4		West Canal (All Sections)	Transferred	Install crash-tested safety railing	C	\$	10,000						\$ 10,000	\$ 10,000
Washington	4	COLUMBIA DASINI DROJECT	West Canal (All Sections)	Transferred	11WC0252 - WEST CANAL W39.9 STATION 167+40 BRIDGE - Install crash-tested safety railing	C	e	10,000						\$ 10,000	\$ 10,000
washington	7	COLUMBIA	west Canal (All Sections)	Hansterred	11WC0148 - West Canal W26C (Sta. 69+80) - Fill voids under	- C	3	10,000						3 10,000	3 10,000
Washington	4		West Canal (All Sections)	Transferred	left abutment and provide slope protection.	D	S	5,000						\$ 5,000	\$ 5,000
		GRAND COULEE	FOO WAY AND OTHER												
Washington	4	DAM OPERATIONS OF	500 KV AND OTHER SWITCHVARD	Reserved	KX26A A & B Bushing Replacement	В	s :	,390,789				\$ 2,376,430			\$ 2,376,430
washington	7	OI LICATIONS OF	SWITCHTARD	reserved	KA20A A & B Bushing Replacement	ь	,	,,570,767				9 2,370,430			3 2,370,430
		GRAND COULEE													
		DAM	500KV SWYD SERVICE		IA - 500kV Swyd - GC 500kV Switchyard Bldg. HVAC										
Washington	4	OPERATIONS OF	BLDG	Reserved	Overhaul	D	S	750,000	\$ 750,000						\$ 750,000
		GRAND COULEE													
		DAM													
Washington	4	OPERATIONS OF	ASSEMBLY BUILDING	Reserved	IA - Assembly Building & Plenum Bldg. Roof Replacement	D	\$	,800,000	\$ 142,200			\$ 1,657,800			\$ 1,800,000
		GRAND COULEE DAM			IA/MP - Movable/Heavy Equip. Maint. This activity is used to										
Washington	4	OPERATIONS OF	CARPENTER/LABOR SHOP	Reserved	purchase movable equipment for the Industrial Area.	D	s	400,000	\$ 40,000			\$ 360,000			\$ 400,000
							-	,	,			,			,
		GRAND COULEE													
W II	4	DAM	CARRENTER A ADOR STAN	ъ.	Hard of the thirty of the transfer			200.000				0 104200			200 000
Washington	4	OPERATIONS OF	CARPENTER/LABOR SHOP GRAND COULEE DAM	Reserved	IA - Carpentry Shop HVAC Overhaul (Start 2040)	D	3	200,000	\$ 15,800	-		\$ 184,200			\$ 200,000
		GRAND COULEE	AND FDR RESERVOIR												
		DAM	(AND GENERAL		LPH/RPH - G1-18 Stator Windings, Cores, and Spares										
Washington	4	OPERATIONS OF		Reserved	Replacement Program	C	\$ 217	,790,437				\$ 217,040,000			\$ 217,040,000
		GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR												
		DAM	(AND GENERAL												
Washington	4	OPERATIONS OF		Reserved	Fire Protection Modernization	В	\$ 91	,076,485	\$ 1,448,554			\$ 83,110,757	\$ 5,975,284		\$ 90,534,595
			GRAND COULEE DAM												
			AND FDR RESERVOIR												
Washingto-	4	DAM OPERATIONS OF	(AND GENERAL	Reserved	IA - 230kV Switchyards Modernization #436	A	9 50	3.881.195				\$ 58,577,118			\$ 58,577,118
Washington	4	OPERATIONS OF	GRAND COULEE DAM	Reserved	IA - 230k v Switchyarus Modernization #436	A	3 St	,001,190				ه ۱۵٫۵//٫۱۱۸			o 38,5//,118
			AND FDR RESERVOIR												
		DAM	(AND GENERAL												
Washington	4	OPERATIONS OF	PROPERTY) GRAND COULEE DAM	Reserved	PGP - P1-PG12 Discharge Tube Recoating	В	\$ 51	,628,598				\$ 37,244,304	\$ 10,281,306		\$ 47,525,610
		GRAND COULEE													
		DAM	(AND GENERAL												
Washington	4	OPERATIONS OF		Reserved	LPH/RPH - G1-18 IsoPhase Bus	В	\$ 40	,407,611				\$ 40,359,290			\$ 40,359,290

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundi	ng Categories*			
	1		1	I.w. e. 17	1	MR&R		Reclamation	Appropriated			Non-Federal Financin	g	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		on oo	GRAND COULEE DAM											
		GRAND COULEE DAM	AND FDR RESERVOIR (AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	LPH/RPH - G1-G18 Standardized Unit Controls Modernization	В	\$ 35,503,745				\$ 35,503,745			\$ 35,503,745
			GRAND COULEE DAM											
		GRAND COULEE	AND FDR RESERVOIR		GERC Governor Exciter Protective Relays (PGP - PG7-PG12									
Washington	4	DAM OPERATIONS OF	(AND GENERAL PROPERTY)	Reserved	Governors, Exciters Relays (P1-P6) and Unit Controls Replacement)	В	\$ 44,174,147	\$ 5,118,357			\$ 23,383,527	\$ 5,734,613		\$ 34,236,497
washington	4	OF EKATIONS OF	rkorekii)	Reserveu	Replacement)	ь	3 44,1/4,14/	3 3,110,337			\$ 23,363,327	3 3,/34,013		3 34,230,437
			GRAND COULEE DAM		LPH/RPH - Crane Controls and Crane Rehab/Replace (Includes									
		GRAND COULEE	AND FDR RESERVOIR		Main Dam East & West 150 Ton Star Iron & Steel Gantry									
W 1: .	4	DAM	(AND GENERAL	D 1	Cranes, LPH & RPH 14 Ton Cyclops Gantry Cranes (Tailrace),	В	6 22 120 522				6 22 07/ 05/			\$ 33,076,056
Washington	4	OPERATIONS OF	PROPERTY) GRAND COULEE DAM	Reserved	and the 50 Ton LPH Bedford Bridge Crane (SS) #3917	В	\$ 33,130,532				\$ 33,076,056			\$ 33,076,036
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	New G1-G18 Transformer disconnects (High Side)	D	\$ 29,560,827				\$ 29,560,827			\$ 29,560,827 *
		GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR											
		DAM	(AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	LPH/RPH - Crane Controls and Crane Rehab/Replace (L&R)	В	\$ 28,396,687	<u> </u>	<u> </u>	L	\$ 27,934,365			\$ 27,934,365
		on our	GRAND COULEE DAM											
	1	GRAND COULEE	AND FDR RESERVOIR (AND GENERAL						1					
Washington	4	DAM OPERATIONS OF	(AND GENERAL PROPERTY)	Reserved	PGP - IsoPhase Bus Replacement/Refurbishment	D	\$ 27,000,000	\$ 1,232,000	1		\$ 25,768,000			\$ 27,000,000 *
** asimigion	7	OI ERATIONS OF	GRAND COULEE DAM	reserved	1 G1 - Isof hase bus replacement/returbishment	ь	3 27,000,000	3 1,232,000			\$ 25,700,000			27,000,000
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL		LPH - Station Service Generators LS1-LS3 Rewinds; Runner,	_								
Washington	4	OPERATIONS OF	PROPERTY) GRAND COULEE DAM	Reserved	Governor, Exciter Replacements #3344	В	\$ 22,710,538				\$ 22,442,149			\$ 22,442,149
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	LPH/RPH - G1-G18 Static Exciter Replacement	A	\$ 21,098,243				\$ 20,546,778			\$ 20,546,778 *
		CD AND COLUEE	GRAND COULEE DAM											
		GRAND COULEE DAM	AND FDR RESERVOIR (AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	LPH/RPH - G1-G18 Paint Penstocks	В	\$ 21,040,960				\$ 20,450,159			\$ 20,450,159 *
			GRAND COULEE DAM				, , , , , , , , , , , , , , , , , , , ,							
		GRAND COULEE	AND FDR RESERVOIR											
Washington	4	DAM OPERATIONS OF	(AND GENERAL PROPERTY)	Reserved	U5 PGP Crane Control Upgrades - MP	C	\$ 20,366,839				\$ 7,881,967	\$ 12,484,872		\$ 20,366,839 *
**asinington	7	OI ERATIONS OF	GRAND COULEE DAM	reserved	es i di Ciane Contoi opgiaues - Mi		3 20,300,037				\$ 7,001,707	3 12,404,072		20,300,037
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL			_								
Washington	4	OPERATIONS OF	PROPERTY) GRAND COULEE DAM	Reserved	GCP - CUL Mill Creek Stabilization - FCRPS	В	\$ 18,000,000	\$ 1,440,000	-		\$ 16,560,000			\$ 18,000,000
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	MP - IA Crane Control Upgrade.	С	\$ 16,743,289				\$ 16,743,289			\$ 16,743,289 *
	l	GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR					I	I					
		DAM	(AND GENERAL											
Washington	4		PROPERTY)	Reserved	LPH/RPH - G11-18 Transformer Replacements #2847	A	\$ 13,590,998				\$ 12,689,723			\$ 12,689,723 *
			GRAND COULEE DAM											
		GRAND COULEE DAM	AND FDR RESERVOIR (AND GENERAL					1	1					
Washington	4		PROPERTY)	Reserved	LPH/RPH - G1-G18 Governor Replacement	A	\$ 12,583,777	1	1		\$ 12,132,573			\$ 12,132,573 *
	i :		GRAND COULEE DAM			i	. 12,000,777	t	t		,,,,,,,,,			. 12,132,373
	l	GRAND COULEE	AND FDR RESERVOIR					I	I					
W II	4	DAM OPERATIONS OF	(AND GENERAL PROPERTY)	ъ .	n or ton ton the		\$ 11.769.041	I	I		\$ 11.031.900			s 11.031.900
Washington	4	OPERATIONS OF	PROPERTY) GRAND COULEE DAM	Reserved	Power Circuit Breakers Reconditioning	В	\$ 11,769,041	<del></del>	-		\$ 11,031,900			\$ 11,031,900
	l	GRAND COULEE	AND FDR RESERVOIR					I	I					
		DAM	(AND GENERAL					1	1					
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	A5/U5 Radio System Modernization FH (Grand Coulee)	D	\$ 13,294,885	\$ 875,298	<b>.</b>		\$ 10,134,734			\$ 11,010,032
		GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR					1	1					
	l	DAM	(AND GENERAL					I	I					
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	LPH/RPH - Relay Modernization	В	\$ 10,767,036	<u> </u>	L	<u></u>	\$ 10,659,000	<u> </u>		\$ 10,659,000 *
_			GRAND COULEE DAM											
		GRAND COULEE	AND FDR RESERVOIR					1	1					
Washington	4	DAM OPERATIONS OF	(AND GENERAL PROPERTY)	Reserved	PGP KP10A/KP10B Transformer Replacement - DA	C	\$ 10.657.117	\$ 1.257,000	I		\$ 7,276,000	\$ 2,113,000		\$ 10,646,000
** asmington	-	O. LKA HONS OF	GRAND COULEE DAM	Keserved	1 01 10 100 Transformer Replacement - DA	<b>—</b> —	9 10,037,117	1,237,000 پ	<b> </b>		ø /,2/0,000	۷ 2,113,000		φ 10,040,000
		GRAND COULEE	AND FDR RESERVOIR					1	1					
	l	DAM	(AND GENERAL					L	I		1.			1.
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	PGP - Additional Station Service Feed to RPH / PGP	В	\$ 9,275,000	\$ 732,725	1		\$ 8,542,275			\$ 9,275,000 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

State         Congression           Washington         4           Washington         4           Washington         4           Washington         4           Washington         4           Washington         4           Washington         4           Washington         4	GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	ject GRAND CC OULEE AND FDR I GNOS OF PROPERTY GRAND CC COULEE AND FDR I GNOS OF PROPERTY GRAND CC COULEE AND FDR I GNOS OF PROPERTY GRAND CC COULEE AND FDR I GNOS OF PROPERTY GRAND CC COULEE AND FDR I GNOS OF PROPERTY GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC ON FOR FOR FOR FOR FOR FOR FOR FOR FOR FOR	ERAL ) Reserved  ULEE DAM ESERVOIR REAL ) Reserved  ULEE DAM ESERVOIR RESERVOIR REAL ) Reserved  ULEE DAM ESESERVOIR RESERVOIR RESERVOIR RESERVOIR RESERVOIR REAL ) Reserved  ULEE DAM ESERVOIR REAL ) Reserved  ULEE DAM ESERVOIR RESERVOIR REAL ) RESERVOIR REAL ) RESERVOIR RESER	Brief Description of Work Needed  Cultural Resource EOM Program CUL (Placeholder funding for specific cultural resources projects)  GCL Transformer Dissolved Gas-in-oil Analyzers (DGA)  PGP - Unit Air System Upgrades - MP  Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor  GCP - Model Dam Restoration	MR&R Categorization Rating  C  A  C	S 7,024,560 S 7,030,684 S 6,508,477 S 8,780,947	\$ 973,018	Appropriated Reclamation Dam Safety	Other	Power Financing  \$ 6,418,940  \$ 6,932,131  \$ 4,445,289  \$ 5,647,055	Non-Federal Financin Reserved Works Water Users  \$ 1,090,170	Operating Partners	Estimated 30-Year MR&R Total  \$ 6,974,770  \$ 6,932,131  \$ 6,508,477  \$ 6,134,769
State         District           Washington         4           Washington         4           Washington         4           Washington         4           Washington         4           Washington         4	GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	ject GRAND CC QULEE AND FDR I GRAND CG COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC GRAND CC COULEE AND FDR I GRAND CC COULEE AND FO	set Name  Works  ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) Reserved ULLEE DAM LESERVOIR ERAL ) Reserved	Brief Description of Work Needed  Cultural Resource EOM Program CUL (Placeholder funding for specific cultural resources projects)  GCL Transformer Dissolved Gas-in-oil Analyzers (DGA)  PGP - Unit Air System Upgrades - MP  Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	Categorization Rating  C  A  C	S 7,024,560 S 7,030,684 S 6,508,477 S 8,780,947	Excluding Dam Safety  \$ 555,830			\$ 6,418,940 \$ 6,932,131 \$ 4,445,289 \$ 5,647,055	Water Users		\$ 6,932,131 \$ 6,508,477 \$ 6,134,769
Washington 4  Washington 4  Washington 4  Washington 4  Washington 4  Washington 4	GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I	ULLEE DAM	Cultural Resource EOM Program CUL (Placeholder funding for specific cultural resources projects)  GCL Transformer Dissolved Gas-in-oil Analyzers (DGA)  PGP - Unit Air System Upgrades - MP  Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	C C	\$ 7,024,560 \$ 7,030,684 \$ 6,508,477 \$ 8,780,947	\$ 555,830	Safety	Federal	\$ 6,418,940 \$ 6,932,131 \$ 4,445,289 \$ 5,647,055		Partners	\$ 6,932,131 \$ 6,508,477 \$ \$ 6,134,769
Washington 4  Washington 4  Washington 4  Washington 4  Washington 4	DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	COULEE AND FDR. I AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I GRAND CC COULEE AND FDR. I	Reserved   Reserved	specific cultural resources projects)  GCL Transformer Dissolved Gas-in-oil Analyzers (DGA)  PGP - Unit Air System Upgrades - MP  Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	A C	\$ 7,030,684 \$ 6,508,477 \$ 8,780,947	\$ 973,018			\$ 6,932,131 \$ 4,445,289 \$ 5,647,055	S 1,090,170		\$ 6,508,477 · \$ 6,134,769
Washington 4  Washington 4  Washington 4  Washington 4  Washington 4	DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	(AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GNAND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CE COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CE COULEE AND FDR I GRAND CE COULEE AND FDR I	ERAL ) Reserved  ULEE DAM ESERVOIR REAL ) Reserved  ULEE DAM ESERVOIR RESERVOIR REAL ) Reserved  ULEE DAM ESESERVOIR RESERVOIR RESERVOIR RESERVOIR RESERVOIR REAL ) Reserved  ULEE DAM ESERVOIR REAL ) Reserved  ULEE DAM ESERVOIR RESERVOIR REAL ) RESERVOIR REAL ) RESERVOIR RESER	specific cultural resources projects)  GCL Transformer Dissolved Gas-in-oil Analyzers (DGA)  PGP - Unit Air System Upgrades - MP  Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	A C	\$ 7,030,684 \$ 6,508,477 \$ 8,780,947	\$ 973,018			\$ 6,932,131 \$ 4,445,289 \$ 5,647,055	S 1,090,170		\$ 6,508,477 · \$ 6,134,769
Washington 4  Washington 4  Washington 4  Washington 4  Washington 4	GRAND C DAM OPERATI GRAND C DAM OPERATI GRAND C DAM OPERATI GRAND C DAM OPERATI GRAND C DAM OPERATI GRAND C DAM OPERATI	GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I	ULEE DAM ESERVOIR ERAL  ) Reserved ULEE DAM ESERVOIR ERAL ) Reserved ULEE DAM ESESERVOIR ERAL ) Reserved ULEE DAM ESESERVOIR ERAL ) Reserved ULEE DAM ESERVOIR ERAL  L Reserved ULEE DAM ESERVOIR ERAL ) Reserved ULEE DAM ESESERVOIR ERAL ) Reserved ULEE DAM ESESERVOIR ERAL ) Reserved	GCL Transformer Dissolved Gas-in-oil Analyzers (DGA)  PGP - Unit Air System Upgrades - MP  Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	A C	\$ 7,030,684 \$ 6,508,477 \$ 8,780,947	\$ 973,018			\$ 6,932,131 \$ 4,445,289 \$ 5,647,055	S 1,090,170		\$ 6,508,477 · \$ 6,134,769
Washington 4  Washington 4  Washington 4  Washington 4	DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	COULEE AND FDR. I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR. I	Reserved   Reserved	PGP - Unit Air System Upgrades - MP  Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	A	\$ 6,508,477 \$ 8,780,947				\$ 4,445,289	\$ 1,090,170		\$ 6,508,477 ° \$ 6,134,769
Washington 4  Washington 4  Washington 4  Washington 4	DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	(AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC AND GEN IONS OF PROPERTY GRAND CC GRAND CC GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I	RAL   Reserved	PGP - Unit Air System Upgrades - MP  Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	A	\$ 6,508,477 \$ 8,780,947				\$ 4,445,289	S 1,090,170		\$ 6,508,477 ° \$ 6,134,769
Washington 4  Washington 4  Washington 4  Washington 4	GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	IONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN I I (AND GEN I I I I I I I I I I I I I I I I I I I	Neserved   Neserved	PGP - Unit Air System Upgrades - MP  Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	A	\$ 6,508,477 \$ 8,780,947				\$ 4,445,289	S 1,090,170		\$ 6,508,477 ° \$ 6,134,769
Washington 4  Washington 4  Washington 4	DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	COULEE AND FDR. (AND GEN (AND GEN GEN DE COULEE AND FDR.)  COULEE AND FDR.)  GRAND CC COULEE AND FDR. (AND GEN GEN DE COULEE AND FDR.)  GRAND CC COULEE AND FDR. (AND GEN (AND GEN GEN GEN GEN GEN GEN GEN GEN GEN GEN	Reserved   Reserved	Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	A	\$ 8,780,947				\$ 5,647,055	\$ 1,090,170		\$ 6,134,769
Washington 4  Washington 4  Washington 4	DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	(AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I ONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I (AND FDR I ONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN	ERAL )  ULLEE DAM LESERVOIR ERAL )  Reserved  ULLEE DAM LESERVOIR ERAL )  Reserved  ULLEE DAM LESERVOIR ERAL )  Reserved  ULLEE DAM LESESERVOIR ERAL )  Reserved  ULLEE DAM LESERVOIR ERAL )  Reserved  ULLEE DAM LESERVOIR ERAL )  Reserved	Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	A	\$ 8,780,947				\$ 5,647,055	\$ 1,090,170		\$ 6,134,769
Washington 4  Washington 4  Washington 4	OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	IONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY (AND GEN IONS OF PROPERTY COULEE AND FDR I GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY COULEE AND FDR I (AND FDR I (AND FDR I (AND FDR I (AND FDR I (AND FDR I (AND FDR I (AND FDR I (AND FDR I (AND FDR I (AND FDR I (AND GEN	Reserved	Block 31 Elevator Rehabilitation  IA - 230kV Swyd - Current Limiting Reactor	A	\$ 8,780,947				\$ 5,647,055	\$ 1,090,170		\$ 6,134,769
Washington 4 Washington 4	DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY	RESERVOIR   RESERVED   RESERVED   RESERVED   RESERVED   RESERVOIR   RESERVED   RESERVE	IA - 230kV Swyd - Current Limiting Reactor			\$ 487,714						
Washington 4 Washington 4	DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI  GRAND C DAM OPERATI	(AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I (AND GEN (AND GEN	ERAL ) Reserved  UULEE DAM LESERVOIR ERAL ) Reserved  UULEE DAM LESESRVOIR ERAL ) Reserved  UULEE DAM LESESRVOIR UULEE DAM	IA - 230kV Swyd - Current Limiting Reactor			\$ 487,714						
Washington 4 Washington 4	OPERATION OPERAT	IONS OF PROPERTY GRAND CC COULEE AND FDR I GRAND CC OULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I GRAND CC COULEE AND FDR I (AND GEN	) Reserved  WILEE DAM  ESSERVOIR  ERAL ) Reserved  WILEE DAM  EESERVOIR  ERAL ) Reserved  WULEE DAM  ULLEE DAM	IA - 230kV Swyd - Current Limiting Reactor			\$ 487,714						
Washington 4 Washington 4	GRAND C DAM OPERATION GRAND C DAM OPERATION GRAND C DAM OPERATION	GRAND CC COULEE AND FDR I (AND GEN GONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN GONS OF PROPERTY GRAND CC COULEE AND FDR I (AND GEN (AND GEN (AND GEN	ULEE DAM LESERVOIR ERAL ) Reserved ULEE DAM LESERVOIR ERAL ) Reserved ULEE DAM	IA - 230kV Swyd - Current Limiting Reactor			107,721						
Washington 4	DAM OPERATION GRAND C DAM OPERATION GRAND C DAM OPERATION OPERATION	(AND GEN IONS OF PROPERTY GRAND CO COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CO COULEE AND FDR I (AND GEN	ERAL ) Reserved ULLEE DAM EESERVOIR ERAL ) Reserved		В	\$ 5,742,689				\$ 5550 221			\$ 5,550,331
Washington 4	OPERATION  GRAND C  DAM  OPERATION  GRAND C  DAM  OPERATION  OPERA	IONS OF PROPERTY GRAND CO COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CO COULEE AND FDR I (AND GEN	) Reserved  ULLEE DAM  RESERVOIR  ERAL ) Reserved  ULLEE DAM		В	\$ 5,742,689				\$ 5550 221			\$ 5,550,331
Washington 4	GRAND C DAM OPERATION GRAND C DAM OPERATION	GRAND CO COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CO COULEE AND FDR I (AND GEN	ULEE DAM RESERVOIR ERAL ) Reserved ULEE DAM		Б	J, /42,085							
	DAM OPERATION GRAND OPERATION OPERATION	COULEE AND FDR I (AND GEN IONS OF PROPERTY GRAND CO COULEE AND FDR I (AND GEN	RESERVOIR ERAL ) Reserved DULEE DAM	GCP Model Dam Portagation	1					9 5,550,551			,,,,,,,,
	OPERATION OPERAT	ONS OF PROPERTY GRAND CO COULEE AND FDR I (AND GEN	) Reserved OULEE DAM	GCD Model Dam Postavation									
	GRAND C DAM OPERATIO	GRAND CO COULEE AND FDR I (AND GEN	ULEE DAM		D	\$ 5,000,000	\$ 387,890			\$ 4,612,110			\$ 5,000,000
Washington 4	DAM OPERATI	COULEE AND FDR I (AND GEN		GCr - woder Dam Restoration	D	\$ 5,000,000	\$ 387,890			\$ 4,612,110			\$ 5,000,000
Washington 4	OPERATI												
Washington 4													
			) Reserved ULEE DAM	Cayuse Cove - CUL (Grand Coulee Cultural Resources)	C	\$ 5,675,275	\$ 310,860			\$ 4,590,920			\$ 4,901,780
	GRAND		RESERVOIR										
	DAM	(AND GEN	ERAL										
Washington 4	OPERATI	IONS OF PROPERTY		PGP - PGP HVAC Overhaul	D	\$ 4,000,000				\$ 2,800,000	\$ 1,200,000		\$ 4,000,000
	CP AND C		ULEE DAM RESERVOIR										
	DAM	(AND GEN											
Washington 4		IONS OF PROPERTY	) Reserved	GCP - Station Service Compressed Air System Upgrades #2716	C	\$ 4,614,922				\$ 3,650,518			\$ 3,650,518
	CD AND C		ULEE DAM										
	DAM	COULEE AND FDR I (AND GEN											
Washington 4		TONS OF PROPERTY		PGP - PG-9, PG11, PG12 Relashing Repair	A	\$ 3,600,000	\$ 538,200			\$ 2,458,800	\$ 603,000		\$ 3,600,000
			ULEE DAM										
	GRAND C DAM	COULEE AND FDR I (AND GEN	RESERVOIR										
Washington 4		TONS OF PROPERTY		GCP - PowerPlant Battery System Replacement (All GCPO)	В	\$ 4,239,936				\$ 3,330,142			\$ 3,330,142
			ULEE DAM										
	GRAND C DAM	COULEE AND FDR I (AND GEN											
Washington 4		IONS OF PROPERTY		PGP Elevator Rehab. & Replacement - PP P13, P11, P1,	В	\$ 3,000,000	\$ 237,000			\$ 2,763,000			\$ 3,000,000
		GRAND CO	ULEE DAM										,,
	GRAND C		RESERVOIR										
Washington 4	DAM	(AND GEN TONS OF PROPERTY		TPP - Incline Elevator Modernization	С	\$ 3,133,502				\$ 2,520,510			\$ 2,520,510
rr ashington 4	OFERAII		ULEE DAM	111 - menne Elevator iviouerinzation		9 3,133,302	1			φ 2,320,310			2,220,310
i	GRAND C	COULEE AND FDR I	RESERVOIR										
Washington 4	DAM	(AND GEN TONS OF PROPERTY		DCD Deef Deelesses	C	\$ 2,500,030				6 1714100	\$ 785,870		\$ 2,500,030
washington 4	OPERATI		) Reserved ULEE DAM	PGP - Roof Replacement	C	s 2,500,030	1			\$ 1,714,160	\$ /85,870		\$ 2,500,030
i	GRAND C	COULEE AND FDR I	RESERVOIR										
[	DAM	(AND GEN	ERAL	LPH/RPH - G1-18 and Outlet Tube Trash Rack Inspections and									
Washington 4	OPERATI	TONS OF PROPERTY	) Reserved ULEE DAM	Rehabilitation	В	\$ 2,500,000	1			\$ 2,500,000			\$ 2,500,000
	GRAND C		RESERVOIR										
	DAM	(AND GEN	ERAL										
Washington 4	OPERATI	TONS OF PROPERTY		PGP - Siphon Breaker Upgrades - MP	C	\$ 2,467,242	\$ 370,087			\$ 1,677,724	\$ 419,431		\$ 2,467,242
j	GRAND C		ULEE DAM RESERVOIR										
i	DAM	(AND GEN											
Washington 4		IONS OF PROPERTY	) Reserved	PGP - P1-6 PG 7-12 CO2 System Replacements	В	\$ 2,359,651	\$ 353,948			\$ 1,604,563	\$ 401,141		\$ 2,359,651
	CDAND		ULEE DAM										
	GRAND C DAM	(AND GEN	RESERVOIR ERAL	PGP Phase Reversal - DW (IA - 230kV Swyd - Phase Reversal									
Washington 4		IONS OF PROPERTY			В	\$ 2,897,004	\$ 329,157			\$ 1,503,769	\$ 368,786		\$ 2,201,712

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	ng Categories*			1
									Appropriated			Non-Federal Financin	ıg	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
					GCP - Powerplant Arc Flash Improvements (Also includes:									
					XRS Switchgear Replacement; MRS Motor Control Board									
					(J5P); Dam Station Service Switchgear and Cable Replacement- MP; PGP Station Switchgear DP2A, DP6A, DP10A - MP,									
					ULS/UALS Switchgear Replacement, PGP UP1A Replacement									
			GRAND COULEE DAM		(for P1-P6 exciters), XRS Switchgear Replacement, RPH - ZRS									
			AND FDR RESERVOIR		Motor Control Board Replacement, MARS Motor Control									
Washington	4	DAM OPERATIONS OF	(AND GENERAL PROPERTY)	Reserved	Board Replacement; ZLRS Substation Replacement(1306) XLS Switchgear Replacement	A	\$ 3,899,714				\$ 1,729,030			\$ 1,729,030 *
** asimigion	7	OI ERATIONS OF	GRAND COULEE DAM	reserved	Switchgear Replacement	Α	3 3,077,714				\$ 1,727,030			3 1,727,030
		GRAND COULEE	AND FDR RESERVOIR											
W/ 1' /	4	DAM OPERATIONS OF	(AND GENERAL PROPERTY)	D 1	IA - 115kV Swyd - Replace Underground Town of Coulee Dam Feeders 1, 3 and 4 #3340	В	\$ 1,950,691				\$ 1,634,223			\$ 1,634,223
Washington	4	OPERATIONS OF	GRAND COULEE DAM	Reserved	reeders 1, 3 and 4 #3340	В	\$ 1,950,691				\$ 1,634,223			\$ 1,634,223
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL		IA - 115kV Swyd - GC 115kV/11.95kV Switchyard Bldg.'s	_								
Washington	4	OPERATIONS OF	PROPERTY) GRAND COULEE DAM	Reserved	Roof Replacement	D	\$ 1,500,000				\$ 1,500,000			\$ 1,500,000 *
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL					]						
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	IA - Admin Building HVAC Overhaul	D	\$ 1,500,000	\$ 118,500			\$ 1,381,500			\$ 1,500,000 *
		GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR											
		DAM	(AND GENERAL					]						
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	IA -Main Dam Uplifts Rehabilitation	C	\$ 1,450,000				\$ 1,450,000			\$ 1,450,000 *
		GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR					]						
		DAM	(AND GENERAL		Left Power House/Right Power House - Cooling Water Strainers									
Washington	4		PROPERTY)	Reserved	and Valves	D	\$ 1,450,000				\$ 1,450,000			\$ 1,450,000 *
			GRAND COULEE DAM											
		GRAND COULEE DAM	AND FDR RESERVOIR (AND GENERAL											
Washington	4			Reserved	IA - 230kV Swyd - KX2A Transformer Refurbishment	В	\$ 1,400,000				\$ 1,400,000			\$ 1,400,000
			GRAND COULEE DAM		,									
		GRAND COULEE DAM	AND FDR RESERVOIR (AND GENERAL		TA SOUND I COSOUND SI INI D C									
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	IA - 500kV Swyd - GC 500kV Switchyard Bldg. Roof Replacement	D	\$ 1,400,000	\$ 110,600			\$ 1,289,400			\$ 1,400,000 *
	,		GRAND COULEE DAM				-,,,,,,,,				1,200,100			-,,
		GRAND COULEE	AND FDR RESERVOIR											
Washington	4	DAM OPERATIONS OF	(AND GENERAL PROPERTY)	Reserved	PGP - Block 11, 64 and 84 Elevator Overhaul	В	\$ 1,200,000	s 94,800			\$ 1,105,200			\$ 1,200,000 *
** asimigion	_	OF ERCTITIONS OF	GRAND COULEE DAM	Reserved	1 of Block 11, of and of Blother Offinian	В	3 1,200,000	3 74,800			3 1,105,200			3 1,200,000
		GRAND COULEE	AND FDR RESERVOIR											
Washington	4	DAM OPERATIONS OF	(AND GENERAL	Reserved	IA - Admin Building Roof replacement	D	\$ 1,000,000	\$ 79,000			\$ 921,000			\$ 1,000,000 *
washington	4	OF EKATIONS OF	GRAND COULEE DAM	Reserveu	A - Admini Bunding Roof replacement	ь	3 1,000,000	3 79,000			3 921,000			3 1,000,000
		GRAND COULEE	AND FDR RESERVOIR											
W/ 11 /		DAM OPERATIONS OF	(AND GENERAL PROPERTY)	D 1	LPH/RPH - Fire Exit Stairway Replacement		6 001 250				6 001 250			\$ 981,250 *
Washington	4	OPERATIONS OF	GRAND COULEE DAM	Reserved	LPH/RPH - Fire Exit Stairway Replacement	A	\$ 981,250				\$ 981,250			\$ 981,250 *
		GRAND COULEE	AND FDR RESERVOIR											
***		DAM	(AND GENERAL		Grand Coulee Left Power House-By Pass Valve and Piping									
Washington	4	OPERATIONS OF	PROPERTY) GRAND COULEE DAM	Reserved	Replacement	В	\$ 2,387,358				\$ 893,490			\$ 893,490 *
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL		L						1.			
Washington	4	OPERATIONS OF	PROPERTY) GRAND COULEE DAM	Reserved	IA - Highway and IA Pole & Building LED Relighting	В	\$ 750,000	-			\$ 59,250	\$ 690,750		\$ 750,000 *
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	RPH - K18B SS Transformer Replacement	В	\$ 750,000				\$ 750,000			\$ 750,000 *
		GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR											
		DAM	(AND GENERAL		IA - 230kV Swyd - GC 230kV Switchyard Bldg.'s HVAC									
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	Overhaul	D	\$ 600,000				\$ 600,000			\$ 600,000 *
		GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR					]						
		DAM	(AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	PGP - Grease System Replacements	В	\$ 535,000				\$ 535,000			\$ 535,000 *
		CD LNID COLUE	GRAND COULEE DAM					]						
		GRAND COULEE DAM	AND FDR RESERVOIR (AND GENERAL					]						
Washington	4		PROPERTY)	Reserved	Visitors Center and Admin Bldg. Elevator Rehabilitation	В	\$ 500,000	<u>                                     </u>	<u>                                      </u>	<u></u>	\$ 500,000			\$ 500,000 *
			GRAND COULEE DAM											
		GRAND COULEE DAM	AND FDR RESERVOIR (AND GENERAL		IA - 230kV Swyd - GC 230kV Switchyard Bldg.'s Roof			]						
Washington	4	OPERATIONS OF		Reserved	Replacement (20 yr Last 2016)	D	\$ 400,000	\$ 31,600			\$ 368,400			\$ 400,000 *
					1 1 \		,,,,,,	,000	1				l	

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			
				Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financia	ıg	
	Congressional	Authorized		Reserved		Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR		GCP - Vibration Monitoring System									
		DAM	(AND GENERAL		Description in 5 year budget formulation data "2448 - U6 TPP									
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	PEB-42 MCM G19-G24"	D	\$ 1,687,317				\$ 350,000			\$ 350,000 *
			GRAND COULEE DAM											
		GRAND COULEE DAM	AND FDR RESERVOIR (AND GENERAL		como national national de la como									
Washington	4	OPERATIONS OF		Reserved	GCPO Patriotic Pride Project (Installation of new large flag pole with lighting)	Е	\$ 290,984	\$ 21,791			\$ 269,193			\$ 290,984
** asimigton		OI ERATIONS OF	GRAND COULEE DAM	Reserved	with righting)	L	3 270,764	5 21,771			3 207,173			3 270,704
		GRAND COULEE	AND FDR RESERVOIR											
		DAM	(AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY) GRAND COULEE DAM	Reserved	IA -Main Dam 950 Gallery Outlet Restoration	D	\$ 280,000	\$ 22,120			\$ 257,880			\$ 280,000 *
		GRAND COULEE												
		DAM	(AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	GCP - Digital Fault Recorders	D	\$ 250,000				\$ 250,000			\$ 250,000 *
			GRAND COULEE DAM											
		GRAND COULEE DAM			TA TIENNO I CONTENTANCO SI INILIANNA									
Washington	4	OPERATIONS OF	(AND GENERAL PROPERTY)	Reserved	IA - 115kV Swyd - GC 115kV11.95 Switchyard Bldg.'s HVAC Overhaul. (Start 2025)	D	\$ 250,000				\$ 250,000			\$ 250,000 *
washington		OI ERATIONS OF	GRAND COULEE DAM	Reserved	Overnaul. (Start 2023)	ь	3 230,000				\$ 230,000			3 250,000
		GRAND COULEE												
		DAM	(AND GENERAL		IA - G&L Vertical Turret Lathe; Retro Fit Controls, spindle						1.	İ		i .
Washington	4	OPERATIONS OF		Reserved	drive and motor.	D	\$ 220,000	\$ 17,380			\$ 202,620			\$ 220,000 *
		GRAND COULEE	GRAND COULEE DAM AND FDR RESERVOIR									1		
		DAM	(AND GENERAL		GCP - Elevation 1229 Gallery Crack Investigation and									
Washington	4	OPERATIONS OF		Reserved	Monitoring	D	\$ 425,000	\$ 16,000			\$ 184,000			\$ 200,000 *
			GRAND COULEE DAM											
		GRAND COULEE												
XX 1: .	4	DAM OPERATIONS OF	(AND GENERAL PROPERTY)	ъ .	COD I D M I D D IC IC All	С	\$ 425,000	6 14,000			6 161,000			6 175 000 *
Washington	4	OPERATIONS OF	GRAND COULEE DAM	Reserved	GCP - Log Booms Moonbeam Bay/Redford Canyon Addtn Grand Coulee Dam - Place expansion joint material in the gaps	C	\$ 425,000	\$ 14,000			\$ 161,000			\$ 175,000 *
		GRAND COULEE			at both ends of the third powerplant crossover bridge decking,									
		DAM	(AND GENERAL		and seal any gaps in the joints along the top of the bridge deck									
Washington	4	OPERATIONS OF		Reserved	precast concrete panels.	C	\$ 68,000				\$ 35,000			\$ 35,000 *
		on thin court pro	GRAND COULEE DAM		Grand Coulee Dam - Repair the crack on the upstream face									
		GRAND COULEE DAM	AND FDR RESERVOIR (AND GENERAL		corner where the main dam makes contact with the forebay dam by removing the delaminated edge and sealing the crack after the									
Washington	4	OPERATIONS OF		Reserved	reservoir water level recedes.	С	\$ 41,214	s 960			s 11.040			\$ 12,000
			GRAND COULEE DAM				,							,
		GRAND COULEE												
		DAM	(AND GENERAL											
Washington	4	OPERATIONS OF	PROPERTY)	Reserved	Marble Bank Stabilization CUL (Grand Coulee)	С	\$ 2,644,857	\$ 320			\$ 5,020			\$ 5,340
		GRAND COULEE												
		DAM	Grand Coulee Dam Pumping											
Washington	4	OPERATIONS OF	Plant P1 and P6	Reserved	PGP - P1-P2 Impeller Replace and Stator Rewinds	В	\$ 30,475,000	\$ 4,556,013			\$ 20,814,425	\$ 5,104,562		\$ 30,475,000 *
		GRAND COULEE DAM	Grand Coulee Dam Pumping											
Washington	4	OPERATIONS OF	Plant P1 and P6	Reserved	PGP - P3-P4 Impeller Replace and Stator Rewinds	В	\$ 30,475,000	\$ 4,556,013			\$ 20,814,425	\$ 5,104,562		\$ 30,475,000 *
washington.		OI EIGITIONS OI	raint raint ro	reserved	1 of 1 of 1 mpener replace and batter revinds		30,173,000	0 1,550,015			\$ 20,011,123	5,101,502		30,173,000
		GRAND COULEE												
		DAM	Grand Coulee Dam Pumping			_								
Washington	4	OPERATIONS OF	Plant P1 and P6	Reserved	P1-P6 Coaster Gate Replacement FK	В	\$ 9,732,619	\$ 332,119			\$ 1,517,307	\$ 3,336,107		\$ 5,185,533
		GRAND COULEE										1		
		DAM	Grand Coulee Dam Pumping		PGP-Rev Flow, Coaster Gate, By-pass Valve, replacing P1-P6							İ		j
Washington	4	OPERATIONS OF		Reserved	and refurbishing PG7-PG12	В	\$ 24,856,783				\$ 14,946,786	\$ 3,485,820		\$ 18,432,606
		on												
		GRAND COULEE DAM	Grand Coulee Dam Pumping	I								I		1
Washington	4	OPERATIONS OF	Plant P1 and P6	Reserved	PGP UP1A Replacement (P1-P6 Exciters)	В	\$ 2,024,449				\$ 1,685,354	\$ 339,095		\$ 2,024,449 *
					,, ( · · · · · · · · · · · · · · · ·	_	-,1,112				,,			,,117
		GRAND COULEE										İ		j
***		DAM	Grand Coulee Dam Pumping		non nunco di mili via di altri di		4 400							
Washington	4	OPERATIONS OF	Plant Pl and P6	Reserved	PGP - P1-P6 Cooling Water Valves and Strainers Replacements	С	\$ 1,480,000	\$ 216,775			\$ 990,350	\$ 242,875		\$ 1,450,000 *
		GRAND COULEE		I								I		1
		DAM	Grand Coulee Dam Pumping									1		
Washington	4	OPERATIONS OF	Plant P1 and P6	Reserved	Pump Generating Plant - Fire Alarm Replacement	A	\$ 1,116,908				\$ 1,116,908			\$ 1,116,908 *
		GRAND COULEE DAM	Grand Coulee Dam Pumping		PGP P5 P6 Impeller Replacement - CY (PGP - P5-P6 Impeller							1		
Washington	4	DAM OPERATIONS OF	Plant P1 and P6	Reserved	Replace and Stator Rewinds)	В	\$ 25,947,009	\$ 18,125			\$ 82,804	\$ 20,307		\$ 121,236
asimigion		O. LIVATIONS OF	r mm r r min r o	reserved	respute and stator rewinds)	L D	÷ 25,771,007	w 10,12J	L		v 02,004	Ψ 20,307		Ψ 121,230

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	g Categories*			]
	1	ı		Transferred /		MR&R		Reclamation	Appropriated			Non-Federal Financin	g	
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
		GRAND COULER	;		(Pump Generating Plant) Clean and repaint the Air/Oil Ejector									
		DAM	Grand Coulee Dam Pumping		Tank and associated piping located at Elevation 1187. (FIST 2-									
Washington	4	OPERATIONS OF	Plant P1 and P6	Reserved	Section 4.1a)  Install an open/close valve (LOR-8) or a check valve on Units	D	\$ 15,000					\$ 13,000		\$ 13,000
		GRAND COULER			P3 thru P6 to make the entire pump unit thrust bearing drain									
Washington	4	DAM OPERATIONS OF	Grand Coulee Dam Pumping Plant P1 and P6	Reserved	piping the same. This could reduce the confusion between GE and Westinghouse units.	D	s 5,000					s 3,000		\$ 3,000
-														
		GRAND COULEE DAM	Grand Coulee Dam Pumping											
Washington	4	OPERATIONS OF	Plant PG7 and PG12	Reserved	PGP - PG7-PG12 Runner Upgrades and Stator Rewinds - MP	В	\$ 224,550,429	\$ 33,570,290			\$ 153,367,942	\$ 37,612,197		\$ 224,550,429
		GRAND COULEE												
Washington	4	DAM ODED A TIONIC OF	Grand Coulee Dam Pumping Plant PG7 and PG12	Reserved	PGP - PG7-PG8 Replace Wicket Gate Op Mechanism	В	\$ 24.571.000	\$ 3,673,365			\$ 16,781,993	\$ 4,115,642		\$ 24,571,000
wasnington	4	OPERATIONS OF	Plant PG/ and PG12	Reserved	PGP - PG/-PG8 Replace Wicket Gate Op Mechanism	В	\$ 24,571,000	\$ 3,6/3,363			\$ 16,/81,993	\$ 4,115,642		\$ 24,571,000
		GRAND COULEE DAM	Grand Coulee Dam Pumping											
Washington	4		Plant PG7 and PG12	Reserved	KP10 A Transformer Replacement at PGP	С	\$ 136,000				\$ 136,000			\$ 136,000
		GRAND COULER	,											
		DAM	Grand Coulee Recreation Sites											
Washington	4	OPERATIONS OF	RW REC	Reserved	Grand Coulee Interpretive Sites Improvements and Repaving	С	\$ 8,500,000			\$ 8,500,000		<u> </u>		\$ 8,500,000
		GRAND COULEE												
Washington	4	DAM OPERATIONS OF	Grand Coulee Recreation Sites RW REC	Reserved	Belvedere Boat Ramp Rehabilitation	В	\$ 1,900,000			\$ 1,900,000				\$ 1,900,000
							3,700,000			,,				
		GRAND COULEE DAM	Grand Coulee Recreation Sites											
Washington	4	OPERATIONS OF		Reserved	North Dam Park Rehabilitation	D	\$ 450,000			\$ 450,000				\$ 450,000
		GRAND COULEE												
*** ** .	4	DAM			N. C. C. WAY OF THE PARTY OF TH									
Washington	4	OPERATIONS OF	LEFT POWERPLANT	Reserved	Replace SS transformer KALS and KBLS	С	\$ 8,112,417				\$ 8,112,417			\$ 8,112,417
		GRAND COULER												
Washington	4	DAM OPERATIONS OF	LEFT POWERPLANT	Reserved	LPH - LS Unit E-Mods	С	\$ 2,400,000				\$ 2,400,000			\$ 2,400,000
		GRAND COULEE DAM												
Washington	4	OPERATIONS OF	LEFT POWERPLANT	Reserved	Left Power House - Fire Alarm Replacement	В	\$ 1,350,000				\$ 1,340,532			\$ 1,340,532
		GRAND COULER												
Washington	4	DAM OBERATIONS OF	LEFT POWERPLANT	Reserved	LPH - LPH Roof Replacement	D	\$ 1,000,000	\$ 1,000,000						\$ 1,000,000
washington	4	OF ERATIONS OF	LEFT FOWERFEANT	Reserved	Erri - Erri Roof Replacement	Б	3 1,000,000	3 1,000,000						3 1,000,000
		GRAND COULEE DAM												
Washington	4		LEFT POWERPLANT	Reserved	LPH - GDACS UPS Replacement (Last 2018, next in 20 yrs)	D	\$ 500,000				\$ 500,000			\$ 500,000
		GRAND COULER												
	] .	DAM			AND CONT.									
Washington	4	OPERATIONS OF	LEFT POWERPLANT	Reserved	LPH - G9 Noise	В	\$ 147,677				\$ 147,677			\$ 147,677
		GRAND COULEE DAM												
Washington	4		MACHINE SHOP	Reserved	IA - Machine Shop Roof Replacement	D	\$ 1,800,000	\$ 142,200			\$ 1,657,800			\$ 1,800,000
		GRAND COULER	,											
		DAM												
Washington	4	OPERATIONS OF	MACHINE SHOP	Reserved	IA - Machine Shop HVAC Overhaul (Orig. System)(Start 2027)	D	\$ 600,000	\$ 47,400			\$ 552,600			\$ 600,000
		GRAND COULEE												
Washington	4	DAM OPERATIONS OF	MACHINE SHOP	Reserved	IA - Retro Fit Horizontal Boring Mill Controls	D	\$ 275,000	\$ 21,725			\$ 253,275			\$ 275,000
asimigion	7			reserved	at teach a formal boring initi controls		273,000	y 21,723			w 233,213			273,000
		GRAND COULEE DAM												
Washington	4		MACHINE SHOP	Reserved	IA - 150 Ton Drake Press Replacement	D	\$ 146,000	\$ 11,534			\$ 134,466			\$ 146,000
		GRAND COULER												
l	] .	DAM	MOBILE CONSTRUCTION	_				_						[
Washington	4	OPERATIONS OF	OFFICE	Reserved	GCP - Const Office Roof Replacement	D	\$ 850,000	\$ 67,150			\$ 782,850	l .		\$ 850,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundin	ng Categories*			1
		1	1				•		Appropriated			Non-Federal Financin	g	
	Congressional	Authorized		Transferred / Reserved		MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
					•	Ŭ		·	•					
		GRAND COULEE DAM	PROCUREMENT/											
Washington	4		PROPERTY OFFICE BLDG	Reserved	Property Bldg ABA Modifications - External	E	\$ 1,001,440	\$ 45,772			\$ 876,789			\$ 922,561 *
		GRAND COULEE DAM	PROCUREMENT/											
Washington	4		PROPERTY OFFICE BLDG	Reserved	Property Bldg ABA Modifications - Internal	В	\$ 977,510	\$ 45,772			\$ 876,789			\$ 922,561 *
		GRAND COULEE DAM	PROCUREMENT/											
Washington	4			Reserved	IA - Procurement Building HVAC Overhaul (20 yr last 2021)	D	\$ 500,000	\$ 39,500			\$ 460,500			\$ 500,000 *
											,			
		GRAND COULEE												
Washington	4	DAM OPERATIONS OF	RIGHT POWERPLANT	Reserved	RPH - RPH Roof Replacement	D	\$ 12,000,000				\$ 12,000,000			\$ 12,000,000 *
washington			HOITTO WELL ENTY	reserved	ra ii ra ii raoo raepiaeeinein		\$ 12,000,000				\$ 12,000,000			12,000,000
		GRAND COULEE												
Washington	4	DAM OPERATIONS OF	RIGHT POWERPLANT	Reserved	Grand Coulee Right Power House -Unit relay replacement	С	\$ 1,650,000	\$ 132,000			\$ 1,518,000			\$ 1,650,000 *
** asimigion		OI ERATIONS OF	RIGHTTOWERLEART	Reserved	Grand Cource Right Fower House -Ome relay replacement		3 1,050,000	3 132,000			3 1,510,000			3 1,050,000
		GRAND COULEE												
Washington	4	DAM OPERATIONS OF	RIGHT POWERPLANT	Reserved	Grand Coulee Right Powerhouse - Replace Main Unit Bypass Values	В	\$ 2,100,000				\$ 1,100,000			\$ 1,100,000 *
w asinington	*	OF EKATIONS OF	RIGITI FOWERFEANT	Reserved	values	ь	3 2,100,000				3 1,100,000			3 1,100,000
		GRAND COULEE												
Washington	4	DAM ODER ATIONS OF	RIGHT POWERPLANT	Reserved	Right Power House - Repaint Gantry Crane	В	\$ 1,061,000				\$ 1,061,000			\$ 1,061,000 *
w asinington	*	OF EKATIONS OF	RIGITI FOWERFEANT	Reserved	Right Fower House - Repaint Gainty Crane	ь	3 1,001,000				3 1,001,000			3 1,001,000
		GRAND COULEE												
Washington	4	DAM	RIGHT POWERPLANT	Reserved	Right Power House - 48 VDC/250 VDC Battery Board	С	\$ 470,000				\$ 370,000			\$ 370,000 *
w asinington	*	OF EKATIONS OF	RIGITI FOWERFEANT	Reserved	Right Fower House - 48 VDC/230 VDC Battery Board		3 470,000				3 370,000			3 370,000
		GRAND COULEE												
W 1: .	4	DAM	SECURITY / COMMUNICATIONS BLDG	Reserved	COR ORER TE HIVACO I LIGA (2025)	D	\$ 250,100	\$ 19,750			\$ 230,350			\$ 250,100 *
Washington	4	OPERATIONS OF	COMMUNICATIONS BLDG	Reserved	GCP - SRF Building HVAC Overhaul (Start 2035)	Б	\$ 250,100	\$ 19,750			\$ 230,350			\$ 250,100
		GRAND COULEE												
Washington	4	DAM	THIRD POWERPLANT	Reserved	TPP - G19-21 Modernization	A	\$ 667,327,784				\$ 662,729,993			\$ 662,729,993 *
wasnington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	IPP - G19-21 Modernization	A	\$ 667,327,784				\$ 662,729,993			\$ 662,729,993
		GRAND COULEE												
W 1: .	4	DAM	THIRD DOWERDS AND	ъ .	TDD C21 24 H : T C (27( MUA) ( 1	D.	\$ 28,568,353				6 20 001 075			\$ 28,001,975
Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	TPP - G21-24 Unit Transformer (276-MVA) (and spares)	В	\$ 28,568,555				\$ 28,001,975			\$ 28,001,975
		GRAND COULEE												
W 1: .	4	DAM	THIRD POWERPLANT	ъ .	TDD C10 24 L DL D		e 10.000.000				£ 10,000,000			\$ 18,000,000 *
Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	TPP - G19-24 IsoPhase Bus	С	\$ 18,000,000				\$ 18,000,000			\$ 18,000,000
		GRAND COULEE												
***		DAM	THE POST TOP AND		TOP W. COMMON TO A									
Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	TPP - Units G22-24 Overhaul	С	\$ 193,936,452				\$ 14,576,360			\$ 14,576,360
		GRAND COULEE												
WL	4	DAM	THIRD POWERPLANT	D 1	TDD Come Control He and do El	C	e (100.00)				6 5 101 401			\$ 5,101,484
Washington	4	OPEKA HONS OF	ITIKD PUWEKPLANT	Reserved	TPP Crane Control Upgrades - EL	С	\$ 6,125,681				\$ 5,101,484			\$ 5,101,484
		GRAND COULEE												
W 1: .	4	DAM	THIRD DOWERDS AND	, .	TDD D AT L D H LC . D L L	С	6 (502 ===				6 2 400 000			2 400 000
Washington	4	OPEKA HONS OF	THIRD POWERPLANT	Reserved	TPP - Draft Tube Bulkhead Gate Rehab	C	\$ 6,502,772				\$ 2,400,000			\$ 2,400,000 *
		GRAND COULEE												
Washington	4	DAM	THIRD POWERPLANT	D	TPP - Office Space and Shop Changes TPP / RPH	С	\$ 3,250,000				\$ 1,500,000			\$ 1,500,000 *
wasnington	4	OPEKA HONS OF	ITIKD PUWEKPLANT	Reserved	TPP-FIRE-CC-FY2045 Based on recommendations from TPP-	C	3,250,000				\$ 1,500,000			\$ 1,500,000 *
		GRAND COULEE			FIRE-DA-FY2044, this project phase executes and completes									
337 1 2	,	DAM	THIRD DOWLERS	D .	the identified, grouped projects formalized in the design/award	F					6 1010.00			
Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	phase. TPP-LUBE-CC-FY2041 Based on recommendations from TPP-	D	\$ 1,346,387	\$ 106,365			\$ 1,240,022			\$ 1,346,387 *
		GRAND COULEE			LUBE-DA-FY2040, this project phase executes and completes									
		DAM	L		the identified, grouped projects formalized in the design/award									1.
Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	phase.	D	\$ 1,211,748	\$ 95,728			\$ 1,116,020			\$ 1,211,748 *
		GRAND COULEE	]											1
		DAM	1		Grand Coulee Third Powerplant Fixed Wheel Gate									1
Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	Refurbishment	D	\$ 7,165,006				\$ 837,900			\$ 837,900

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Temporal   Machine   Mac												Fundin	g Categories*			1
Companies   Authorists   Companies   Com			ı		Transferred /	T	MD&D	_		Reclamation	Appropriated			Non-Federal Financir	ıg I	
March   Column   Co	State			Asset Name	Reserved	Brief Description of Work Needed	Categorization			Excluding Dam						
Part   Part	~									20114	5					
DEAD COLE			DAM													
Wednest	Washington	4			Reserved	(BS3B & BS3E)	A	S	750,000				\$ 750,000			\$ 750,000 *
Westington   4   OPEN ATTORNEY PROTECTED   Regard   The Section   The																
Section   Continue	Washington	4		THIRD POWERPLANT	Reserved	TPP - Eyewash Shower Upgrades	С	S	500,000				\$ 500,000			\$ 500,000 *
Value   Part				3												
Substance   A   OFFENDOR OF THE DISTRIBUTION   Beared   The Number of the Control of the Contr	Washington	4	DAM OPERATIONS OF	THIRD POWERPLANT	Reserved	TPP - New North end Service Door	D	s	325,000	\$ 25,675			\$ 299,325			\$ 325,000
Number   Part			GRAND COULEE													
PRINCE OF STAND COURTS   PRINCE OF STAND COU	W 1: .		DAM		D 1	TDD N. d. 10. d.El. (0. 1. 1/20. J. (2012)	D		250,000	6 10.750			6 220.250			250,000
Wallangen   Wall	wasnington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	TPP-FIRE-DA-FY2044 Based on evaluation TPP-FIRE-MP-	В	3	250,000	\$ 19,750			\$ 230,250			\$ 250,000
Part   Part																
Waltington   4   DAM			on oov pp			products required to improve maintenance activities requiring										
TPP_CWEAT_POWER_																
Pitch   Pitc	Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved		D	S	127,017	\$ 10,034			\$ 116,983			\$ 127,017 *
Part   Part						FY2043, develop the appropriate non-routine and capital										
GRAND COULE																
Weshington   4   OPERATIONS OF THEO POWERPLANT   Received   Proceedings of explanation of the process of the						improvements, which may include procedures, maintenance										
TP-LISEA-PY-YV3D-Learly of approximate reginal flashing requirements reginal flashing requirements reginal flashing requirements reginal flashing requirements reginal flashing requirements reginal flashing requirements reginal flashing requirements reginal flashing requirements reginal by a property of the company of	Washington	4		THIRD POWERPLANT	Reserved		D	s	108,786				\$ 108,786			\$ 108,786 *
CRAND COULE   DAN   DA																
GRAND COULE						requiring refurbishment and replacement (non-routine or capital										
Washington   4			GRAND COLUEE													
CRAND COLLE   DAM   S   CRAN			DAM			to be accomplished by maintenance crews. This system includes										
Washington   A   DAM   OPERATIONS of THIRD POWERPLANT   Reserved   TPP - G19-24 Protective Relay Replacement STP   A   S   750,652   S   100,000   S   100	Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	distribution, collection, processing and storage of lube oil.	D	\$	107,845	\$ 8,520			\$ 99,325			\$ 107,845 *
Washington   4   OPERATIONS OF THIRD POWERPLANT   Reserved   TPP - Gip-24 Protective Relay Replacement JSP   A   \$ 750,652   \$ 100,000																
Mashington   A   OPERATIONS OF THIRD POWERPLANT   Reserved   TPP - Replace Air Handler System Balancer   C   S   100,000     S   100,000   S	Washington	4		THIRD POWERPLANT	Reserved	TPP - G19-24 Protective Relay Replacement J5P	A	s	750,652				\$ 100,000			\$ 100,000 *
Mashington   A   OPERATIONS OF THIRD POWERPLANT   Reserved   TPP - Replace Air Handler System Balancer   C   S   100,000     S   100,000   S			GRAND COLLER													
GRAND COULE   DAM   VISITOR ARRIVAL   Reserved   IA - VAC Roof Replacement   D   S   1,200,000   S   1,850   S   1,381,500   S   1,200,000   S			DAM													
DAM	Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	TPP - Replace Air Handler System Balancer	С	S	100,000				\$ 100,000			\$ 100,000 *
Washington   4   OPERATIONS OF THIRD POWERPLANT   Reserved   TPP 275 Ton forebay gantry crane repair   E   S   979,223     S   76,370   S   76,370																
DAM   Washington   A   OPERATIONS OF THIRD POWERPLANT   Reserved   TPP G-20 TRANSFORMERS TRIENNIAL Maintenance   D   S   67,000   S	Washington	4		THIRD POWERPLANT	Reserved	TPP 275 Ton forebay gantry crane repair	Е	s	979,223				\$ 76,370			\$ 76,370
DAM   Washington   A   OPERATIONS OF THIRD POWERPLANT   Reserved   TPP G-20 TRANSFORMERS TRIENNIAL Maintenance   D   S   67,000   S			GRAND COULEE													
GRAND COULEE   DAM   OPERATIONS OF THIRD POWERPLANT   Reserved   Third Powerplant - Emergency Lighting Power System Update   A   S   350,000   S   50,000   S	Wbin-to-	4	DAM		December	TDD C 20 TD ANGEODMEDG TRIENNIAL Mainteanna	D		67,000				6 67,000			67,000
Mashington   4   OPERATIONS OF THIRD POWERPLANT   Reserved   Third Powerplant - Emergency Lighting Power System Update   A   S   350,000   S   50,	wasnington	4		THIRD POWERPLANT	Reserved	IFF G-20 TRANSFORMERS TRIENNIAL Maintenance	D	3	67,000				\$ 67,000			\$ 67,000
GRAND COULEE   DAM   OPERATIONS OF THIRD POWERPLANT   Reserved   Grand Coulee Dam - Main Dam Foundation Drain Cleaning   B   \$ 774,800 \$ 43,000   \$ 43,000   \$ 40,000   \$ 50,000,000   \$																
DAM OPERATIONS OF THIRD POWERPLANT   Reserved   Grand Coulee Dam - Main Dam Foundation Drain Cleaning   B   S   774,800   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   43,000   S   40,000	Washington	4	OPERATIONS OF	THIRD POWERPLANT	Reserved	Third Powerplant - Emergency Lighting Power System Update	A	\$	350,000				\$ 50,000			\$ 50,000 *
Washington         4         OPERATIONS OF THIRD POWERPLANT         Reserved         Grand Coulce Dam - Main Dam Foundation Drain Cleaning         B         \$         774,800         \$         43,000         \$         43,000         \$         43,000         \$         43,000         \$         43,000         \$         \$         43,000         \$         \$         43,000         \$         \$         43,000         \$         \$         43,000         \$         \$         43,000         \$         \$         43,000         \$         \$         \$         43,000         \$ <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																
Washington   Variety   GRAND COULER   DAM   OPERATIONS OF [MAIN ASSET]   Reserved   Coulee Visitor Center Park Rehabilitation   C   S   6,000,000   S   6,00	Washington	4		THIRD POWERDI ANT	Docorroad	Grand Coulee Dam - Main Dam Foundation Drain Cleaning	R	s	774 800	\$ 43,000						\$ 43,000
DAM   TOURIST FACILITIES   Reserved   Coulee Visitor Center Park Rehabilitation   C   S   6,000,000   S   6,	** asimigion	-			Reserved	State Cource Dain - Main Dain Foundation Diani Cleaning	ь	9	, ,4,000	43,000						43,000
Washington         4         OPERATIONS OF (MAIN ASSET)         Reserved         Coulee Visitor Center Park Rehabilitation         C         \$ 6,000,000         \$			DAM	TOURIST FACILITIES												
DAM   VISITOR ARRIVAL   Reserved   IA - VAC HVAC Overhaul   D   S   1,500,000   S   118,500   S   1,381,500   S   1,500,000   A	Washington	4			Reserved	Coulee Visitor Center Park Rehabilitation	С	S	6,000,000			\$ 6,000,000				\$ 6,000,000 *
Washington         4         OPERATIONS OF CENTER (VAC)         Reserved         IA - VAC HVAC Overhaul         D         \$ 1,500,000         \$ 118,500         \$ 1,381,500         \$ 1,500,000         \$ 1,500,000         \$ 1,200,000																
Washington 4 GRAND COULEE DAM VISITOR ARRIVAL OPERATIONS OF CENTER (VAC) Reserved IA - VAC Roof Replacement D \$ 1,200,000 \$ 94,800 \$ \$ 1,105,200 \$ \$ 1,200,000 \$	Washington	4			Reserved	IA - VAC HVAC Overhaul	D	s	1.500.000	\$ 118,500			\$ 1.381.500			\$ 1,500,000 *
DAM   VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL     VISITOR ARRIVAL	usmington	<u> </u>			reserved			_	1,500,000	110,500			- 1,501,500			1,500,000
Washington         4         OPERATIONS OF CENTER (VAC)         Reserved         IA - VAC Roof Replacement         D         \$ 1,200,000         \$ 94,800         \$ 1,105,200         \$ 1,200,000         \$ 1,200,000           GRAND COULEE DAM         DAM			DAM	VISITOR ARRIVAL												
DAM	Washington	4	OPERATIONS OF	CENTER (VAC)	Reserved	IA - VAC Roof Replacement	D	S	1,200,000	\$ 94,800			\$ 1,105,200			\$ 1,200,000 *
				:												
	Washington	4		WAREHOUSE 3	Reserved	GCP -Warehouse 3 Replacement	R	s	11.209 350	\$ 894 367			\$ 10.285 225			\$ 11 179 592 *

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Appendix

										Fundin	g Categories*			1
	ı			Transferred /	T	MR&R	I	Reclamation	Appropriated			Non-Federal Financia	ng I	-
	Congressional	Authorized		Reserved		Categorization	Estimated Total	Excluding Dam	Reclamation Dam	Other	Power	Reserved Works	Operating	Estimated 30-Year
State	District	Project	Asset Name	Works	Brief Description of Work Needed	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		GRAND COULEE												
		DAM												
Washington	4	OPERATIONS OF	WAREHOUSE A	Reserved	IA - Warehouse A HVAC Overhaul	D	\$ 2,000,000	\$ 158,000			\$ 1,842,000			\$ 2,000,000 *
		GRAND COULEE												
		DAM												
Washington	4	OPERATIONS OF	WAREHOUSE A	Reserved	IA - Warehouse A Roof Replacement	D	\$ 1,200,000	\$ 94,800			\$ 1,105,200			\$ 1,200,000 *
		GRAND COULEE												
		DAM												
Washington	4	OPERATIONS OF	WAREHOUSE B	Reserved	IA - Warehouse B HVAC Overhaul	D	\$ 2,000,000	\$ 158,000			\$ 1,842,000			\$ 2,000,000 *
		GRAND COULEE												
		DAM												
Washington	4	OPERATIONS OF			IA - Warehouse B Roof Replacement	D C	\$ 1,200,000	\$ 94,800			\$ 1,105,200			\$ 1,200,000 *
Washington	4	OTHER	OTHER	FWS	Leavenworth Surface Water Intake Rehabilitation WNFH Rearing Units and BackBone System (Winthrop	C	\$ 28,581,573	\$ 24,277,316						\$ 24,277,316
Washington	4	OTHER	OTHER	FWS	National Fish Hatchery)	A	\$ 13,902,000	\$ 3,852,000			\$ 8,988,000			\$ 12,840,000
Washington	4	OTHER OTHER	OTHER OTHER	FWS	LVN - Leavenworth Wastewater Pumpback LVN Leavenworth Circular Tanks	C	\$ 1,671,000 \$ 2,918,205	\$ 95,700 \$ 450,290			\$ 1,115,300			\$ 1,211,000 \$ 450,290
wasnington	4	OTHER	OTHER	LMS	Town Fish Screen Facility - Repair erosion and undercutting of	В	9 2,918,205	a 450,290	<del>                                     </del>					o 450,290
	1	YAKIMA			the grouted riprap on left bank of Yakima River downstream of			1.	]					
Washington	4	PROJECT YAKIMA	009 Town Fish Screens	Reserved	Town Diversion Dam and adjacent to Town Canal Headworks.	D	\$ 25,000	\$ 25,000						\$ 25,000 *
Washington	4	PROJECT	010 Roza Dam Fish Screens	Reserved	Roza Screen Modifications	A	\$ 24,777,161	\$ 22,312,620						\$ 22,312,620
		YAKIMA	015 City of Yakima Fish						į į					
Washington	4	PROJECT YAKIMA	Screen Facility 016 Wapato East Branch and	Reserved	City of Yakima Bypass Rehabilitation Wapato East Branch Right Bank & Center Fish Ladders -	D	\$ 2,050,000	\$ 2,050,000						\$ 2,050,000
Washington	4	PROJECT	Center Fish Ladders	Reserved	Evaluate and repair slide gate G-2 to full operation.	С	\$ 5,000	\$ 5,000						\$ 5,000 *
		YAKIMA	028 Columbia Canal Fish		Replace bridge at headgate, does not meet width & weight									
Washington	4	PROJECT YAKIMA	Screens Bumping Lake Dam and	Reserved	requirements. This project is the BOR building a bridge.  Replace/repair bridge that no longer meets weight limit	В	\$ 1,000,000	\$ 750,000	-					\$ 750,000 *
Washington	4	PROJECT	Reservoir	Reserved	requirements (Type 1)	В	\$ 150,000	\$ 150,000						\$ 150,000 *
		YAKIMA			13CAS0375:CASCADE CANAL-STA 3+75 BRIDGE - Install									
Washington	4	PROJECT YAKIMA	Cascade I.D. Pumping Plant	Transferred	Wingwalls and Rehabilitate Approaches  13CAS4500:CASCADE CANAL-STA 45+00 BRIDGE - Install	D	\$ 10,000	\$ 10,000	-					\$ 10,000 *
Washington	4	PROJECT	Cascade I.D. Pumping Plant	Transferred	Wingwalls and Rehabilitate Approaches	D	\$ 10,000	\$ 10,000						\$ 10,000 *
***		YAKIMA	or II n											40,000,400
Washington	4	PROJECT YAKIMA	Chandler Powerplant	Reserved	Generator Unit 1 and 2 Modernization  Chandler Power Plant - Intake Trashrack Rehabilitation or	С	\$ 18,173,245				\$ 18,098,400			\$ 18,098,400 *
Washington	4	PROJECT	Chandler Powerplant	Reserved	Replacement	D	\$ 5,250,000				\$ 5,250,000			\$ 5,250,000 *
W 1' .		YAKIMA PROJECT	CI II D. I .	D 1	CL B File M FG C	0	\$ 5,000,000	\$ 5,000,000						\$ 5,000,000 *
Washington	4	YAKIMA	Chandler Powerplant	Reserved	Chandler Fish Screen Modification Chandler Power Plant - ANALOG Controls - Station Control		\$ 5,000,000	\$ 5,000,000						\$ 5,000,000
Washington	4	PROJECT	Chandler Powerplant	Reserved	Boards Rehabilitation or Replacement	D	\$ 2,205,000				\$ 2,205,000			\$ 2,205,000 *
Washington	4	YAKIMA PROJECT	Chandler Powerplant	Reserved	Chandler Power Plant - DIGITAL Station Control Boards Rehabilitation or Replacement	D	\$ 2,205,000				\$ 2,205,000			\$ 2,205,000 *
washington	4	YAKIMA	Chandler Fowerplant	Reserved	Chandler Powerplant - Unit 1 & 2 Governor Rehabilitation or	D					3 2,203,000			3 2,203,000
Washington	4	PROJECT	Chandler Powerplant	Reserved	Replacement	D	\$ 1,500,000				\$ 1,500,000			\$ 1,500,000 *
Washington	4	YAKIMA PROJECT	Chandler Powerplant	Reserved	Chandler Power Plant - Station Power Switchgear - 480V DCA Rehabilitation or Replacement	D	S 1,322,000				\$ 1,322,000			\$ 1,322,000 *
washington	7	YAKIMA	•	reserved	Chandler Power Plant - Station Power Switchgear 480V M1A		, , , , , , , , , , , , , , , , , , , ,		1					, , , , , , ,
Washington	4	PROJECT	Chandler Powerplant	Reserved	Rehabilitation or Replacement	D	\$ 1,322,000		ļ		\$ 1,322,000			\$ 1,322,000 *
Washington	4	YAKIMA PROJECT	Chandler Powerplant	Reserved	Chandler Power Plant - Unit 1, Unit 2, and JZ3A (311) Circuit Breakers (Vacuum) Rehabilitation or Replacement	С	\$ 1,170,400	1	1		\$ 1,170,400			\$ 1,170,400 *
	·	YAKIMA			Chandler Powerplant Telephone/Communications Hardware									
Washington	4	PROJECT YAKIMA	Chandler Powerplant	Reserved	Rehabilitation/Replacement.  Chandler Powerplant - Station Power Distribution (<600V) - DC	D	\$ 970,000				\$ 970,000			\$ 970,000 *
Washington	4	Y AKIMA PROJECT	Chandler Powerplant	Reserved	Chandler Powerplant - Station Power Distribution (<600V) - DC Distribution System Rehabilitation	D	\$ 825,000	1	1		\$ 825,000			\$ 825,000 *
	·	YAKIMA											1	
Washington	4	PROJECT YAKIMA	Chandler Powerplant	Reserved	Chandler Powerplant Electronic Security System Rehabilitation Chandler Power Plant - Units 1 & 2 Lower and Upper Bearing	E	\$ 750,000	<del> </del>			\$ 750,000		-	\$ 750,000 *
Washington	4	PROJECT	Chandler Powerplant	Reserved	Rehabilitation or Replacement	D	\$ 740,600				\$ 740,600			\$ 740,600 *
		YAKIMA			Chandler Power Plant -Oil Storage - Fire Suppression System			1						
Washington	4	PROJECT YAKIMA	Chandler Powerplant	Reserved	Rehabilitation or Replacement Chandler Power Plant Circuit Breaker (Vacuum) - 4160V-	D	\$ 430,000	<del> </del>	<del>                                     </del>		\$ 430,000			\$ 430,000 *
Washington	4	PROJECT	Chandler Powerplant	Reserved	UCA5 (311) Replacement	D	\$ 390,000	1	]		\$ 390,000			\$ 390,000 *
		YAKIMA			Chandler Power Plant - Units 1 & 2 Turbine Guide Bearings			1	į į					
Washington	4	PROJECT YAKIMA	Chandler Powerplant	Reserved	Rehabilitation or Replacement Chandler Power Plant - Governor High Head - Fire Suppression	D	\$ 376,000	<del> </del>	<del>                                     </del>		\$ 376,000			\$ 376,000 *
Washington	4	PROJECT	Chandler Powerplant	Reserved	System Rehabilitation or Replacement	D	\$ 296,000	1	]		\$ 296,000			\$ 296,000 *
		YAKIMA			Chandler Power Plant - Units 1 & 2 Thrust Bearing			1	į į					
Washington	4	PROJECT YAKIMA	Chandler Powerplant	Reserved	Rehabilitation or Replacement	D	\$ 294,000				\$ 294,000			\$ 294,000 *
Washington	4	Y AKIMA PROJECT	Chandler Powerplant	Reserved	Chandler Power Plant - Units 1 & 2 Stator Auxiliaries Rehabilitation or Replacement	D	\$ 112,500	1	1		\$ 112,500			\$ 112,500 *
		YAKIMA			Chandler Pumping Plant - Kennewick ID Pump #1 Rebuild						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Washington	4	PROJECT	Chandler Pumping Plant	Reserved	(FY32)	C	\$ 106,000					\$ 106,000	l	\$ 106,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Funding Categories<sup>3</sup> Appropriated on-Federal Financin Transferred MR&R ategorizati Authorized Reserved Estimated Total Excluding Dam clamation Da Other Power Reserved Works Operating Estimated 30-Year District Project Asset Name Works Brief Description of Work Needed Rating Safety Safety Federal Financing Water Users MR&R Total ΔΚΙΜΔ handler Pumping Plant - Kennewick ID Pump #1 Rebuild 106.000 106 000 PROJECT ndler Pumping Plant FY42) AKIMA Chandler Pumping Plant - Kennewick ID Pump #2 Rebuild 106,000 106,000 Washingto ROJECT andler Pumping Plant (FY48) 106,000 Chandler Pumping Plant - Kennewick Irrigation District Pump AKIMA PROJECT 106,000 106,000 106,000 Washingto andler Pumping Plant #1 Rebuild (FY22) AKIMA Washington PROJECT handler Pumping Plant Chandler Pumping Plant - Kennewick Pump #2 Rebuild (FY38 106,000 106,000 106,000 AKIMA Chandler Pumping Plant - Kennewick ID - Pump #2 Rebuild Washingto nandler Pumping Plant 106,000 106,000 106,000 Cle Elum Dam High Voltage Replacement/Upgrade of 3 phase AKIMA Cle Elum Dam (Cle Elum Washingto River Zoned Farthfill) electrical supply to Cle Elum Dam. 1.349.600 342.880 685.760 He Elum Dam - Repair the spalls, which are greater than 2 AKIMA le Elum Dam (Cle Elum nches deep, in the spillway chute floor and fill the cracks in th PROJECT Washington River Zoned Earthfill) floor with a sealant. 20,000 10.000 20,000 AKIMA nstall of Clear Creek Actuators, Dive team removal of intake Clear Creek Dam and Washington PROJECT debris, and vent pipe replacement 300,000 300,000 300,000 eservoir Replacement/upgrade of the Bureau of Reclamation Hydrologicial & Meteorological Information System BORHMIS) data collection, storage components, and software AKIMA ools used to manage data for the Yakima Project, Yakima Bas PROJECT 4,960,000 AKIMA Yakima Basin Hydromet Upgrade 3,500,840 1,730,420 1,730,420 3,460,840 PROJECT vdromet Radio System The dam safety issues are associated with internal erosion alor YAKIMA Kachess Lake Dam and he outlet works conduit. The Corrective Action Study to PROJECT 23.000.000 21,161,000 21.161.000 Washingto identify appropriate risk reduction actions is in progress YAKIMA Keechelus Lake Dam and Washingto PROJECT Rehabilitate Guard Gate No. 5 four-way valve 350,000 350,000 AKIMA Keechelus Lake Dam and 250,000 PROJECT 128,500 250,000 Washington ecoat or replace deteriorated portion of 22-inch bypass pip Keechelus Lake Dam and Washingto PROJECT Rehabilitate Crest Roadway 75,000 75,000 AKIMA Keechelus Lake Dam and 36,450 38,550 ROJECT Repair deteriorated concrete in spillway 75,000 75,000 AKIMA eechelus Lake Dam and echelus Dam - Replace hydraulic hoist No. 1 to prevent ROIFCT 50.000 25.50 50,000 eakage of the hydraulic fluid AKIMA Roza Main Canal (headwork eplace the invert concrete lining and drains. 1st 1.5 miles pa 660.000 90.00 900.000 1,650,000 1,650,000 ROIFCT he river syphon outlet. AKIMA oza Power Plant - Intake Trash Rack and Collector 3,986,000 3,986,000 3.986.000 Washingto PROJECT oza Power Plan Rehabilitation or Replacement D AKIMA PROJECT Roza Power Plant - Unit 1 Stator Winding 3,470,000 3,470,000 3,470,000 Washingto oza Power Plant Reserved Roza Power Plant - Station Control Switchboard or Main AKIMA Control Console (Analog) - Station Control Boards PROJECT oza Power Plant Rehabilitation or Replacement 2,205,000 2.205.000 Washingto AKIMA oza Power Plant - Radio System Rehabilitation or ROJECT 970,00 AKIMA oza Power Plant - Compressed Air Systems 1 and 2 591,000 591.000 PROJECT a Power Plan ehabilitation and Replacement. 591,000 YAKIMA oza Power Plant - Fire Suppression System Rehabilitation o 430.000 Washingt PROJECT oza Power Plant enlacement D 430.000 430.000

D

D

D

324,000

296,000

268,000

250,000

215,000

210,000

150.000

113,000

7,968,22

11,233,840

5.585.420

324,000

296,000

268,000

250,000

215,000

210,000

150 000

113,000

5,585,420

oza Power Plant - Unit 1 Thrust Bearing Rehabilitation or

oza Power Plant - HVAC - Heating and Cooling Rehabilitati

oza Power Plant - Unit 1 Lower Guide Bearings Rehabilitati

oza Power Plant - Unit 1 Turbine Guide Bearing Component

oza Power Plant - Circuit Breaker (Vacuum) - JZ1A 6.6 kV

oza Power Plant - Annunciation System 1 Controls (Digital)

Bridge 13TIEWCAT- Repair erosion damage and deterioration

r replace bridge to correct deficiencies and meet fisheries

oza Power Plant - Governor Compressed Air System

oza Power Plant - Unit 1 Upper Guide Bearing

ehabilitation or Replacement

Rehabilitation/Replacement

Rehabilitation or Replacement.

Rehabilitation or Replacement

Rehabilitation or Replacement.

Switch rehab and breaker upgrade

r Replacement

YAKIMA

PROJECT YAKIMA

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Roza Switchyard and

ieton Dam and Reservoir

Reserved

Washingto

Washingto

Washington

Washingto

Washingto

Washingto

Washingto

List of Major Rehabilitation and Replacement Activities FY 2021-2050

324,000

296,000

268,000

250,000

210,000

150 000

113,000

6,002,76

11,170,840

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

										Fundir	ng Categories*			
	1	1	1	Im a M	T	I iman		D 1	Appropriated			Non-Federal Financia	g	, ,
State	Congressional	Authorized	Asset Name	Transferred / Reserved Works	Diff. if W. IV. II	MR&R Categorization	Estimated Total	Reclamation Excluding Dam	Reclamation Dam	Other	Power Financing	Reserved Works	Operating Partners	Estimated 30-Year MR&R Total
State	District	Project	Asset Name	Works	Brief Description of Work Needed  Re engineer & replacement of hydraulic system for the Outlet	Rating	Costs	Safety	Safety	Federal	Financing	Water Users	Partners	MR&R Total
		YAKIMA			Works Guard Gates. Replacement of the bonnet and stem									
Washington	4	PROJECT	Tieton Dam and Reservoir	Reserved	packing.	C	\$ 890,000	\$ 432,540				\$ 457,460		\$ 890,000 *
Washington	4	YAKIMA PROJECT	Tieton Dam and Reservoir	Reserved	Repair or replace the jet-flow gate accumulators and seals.	D	\$ 500,000	\$ 243,000				\$ 257,000		s 500,000 *
** asimigion		YAKIMA	ricion Dain and Reservoir	Reserved	Tieton Dam drum gate assessment (UT of cheek plates), and	Ь	3 300,000	3 243,000				237,000		300,000
Washington	4	PROJECT	Tieton Dam and Reservoir	Reserved	determine appropriate repair	C	\$ 400,000	\$ 200,000				\$ 200,000		\$ 400,000 *
Washington	4	YAKIMA PROJECT	Tieton Dam and Reservoir	Reserved	Tieton Penstock Protection from Water Damage and Air valve access	D	\$ 300,000	\$ 150,000				\$ 150,000		\$ 300,000 *
washington	4	YAKIMA	Heton Dain and Reservon	Reserveu	Tieton Dam - Reseal outlet channel Bridge deck to prevent	ь	3 300,000	3 150,000				3 150,000		3 300,000
Washington	4	PROJECT	Tieton Dam and Reservoir	Reserved	water intrusion.	E	\$ 10,000	\$ 5,000				\$ 5,000		\$ 10,000 *
Washington	4	YAKIMA PROJECT	Tieton Dam and Reservoir	Reserved	Tieton Dam - Make Jet Valve limit switches operable.	D	\$ 5,000	\$ 2,500				\$ 2,500		\$ 5,000 *
wasnington	4	PROJECT	Helon Dam and Reservoir	Reserved	LOWER WAPATOX CANAL - Make repairs or replacements	Б	\$ 5,000	\$ 2,300				\$ 2,300		5 5,000
		YAKIMA			to the 24-inch-diameter steel pipe of the Lower Wapatox Canal									
Washington	4	PROJECT	WAPATOX LOWER CANAL WAPATOX UPPER CANAL	Reserved	as warranted by the results of the service life evaluation.	С	\$ 250,000	\$ 250,000						\$ 250,000 *
		YAKIMA	(INCLUDING LOCUST											
Washington	4	PROJECT	SIPHON)	Reserved	Rehabilitation of the entire canal system	A	\$ 20,000,000	\$ 16,000,000						\$ 16,000,000 *
		YAKIMA	YAKIMA FIELD OFFICE											
Washington	4	PROJECT	WATER STORAGE CREW OFFICE	Reserved	YFO Water Storage Building Replacement	D	\$ 1,200,000	\$ 490,000				\$ 510,000		\$ 1,000,000 *
		COLUMBIA	Burbank Plant No. 2 and 3											
Washington	5	BASIN PROJECT	Fish Screens	Reserved	Burbank 2 & 3 Rehab Refurb Replace	В	\$ 500,000	\$ 500,000						\$ 500,000 *
					The dam safety issues at Conconully Dam are associated with the potential deformation of the dam during an earthquake,					1				
		OKANOGAN			resulting in overtopping or erosion failure of the dam. The									
Washington	5	PROJECT	Conconully Dam	Transferred	Corrective Action Study was initiated in FY 2019.	A	\$ 79,200,000		\$ 77,134,000					\$ 77,134,000
Washington	5	OKANOGAN PROJECT	CONCONULLY LAKE RESORT - MAIN HOUSE	Transferred	Conconully Resort Stabilization.	В	\$ 1,255,906	\$ 200,000						\$ 200,000 *
washington	,	OKANOGAN	Salmon Lake Dam and Upper	Hallstelled	Conconunty Resort Stabilization.	ь	3 1,233,900	3 200,000						3 200,000
Washington	5	PROJECT	Reservoir (Conconully Lake)	Transferred	Salmon Lake Dam - Outlet works gates rehabilitation	D	\$ 30,000						\$ 30,000	\$ 30,000 *
Washington		OKANOGAN PROJECT	Salmon Lake Dam and Upper Reservoir (Conconully Lake)	Transferred	Salmon Lake Dam - Add Extensions to Top of Bulkhead Gates	E	\$ 25,000						\$ 25,000	\$ 25,000 *
Washington	4	OTHER	OTHER	FWS	Leavenworth Automation of Snow and Nada Dams	D	\$ 700,000	\$ 700,000					\$ 23,000	\$ 700,000 *
					Rehabilitate measuring flume at Big Sandy dam at the head of									
Wyoming	1	EDEN PROJECT	Means Canal	Transferred	the canal.	D	\$ 100,000						\$ 100,000	\$ 100,000 *
			ALCOVA DAM,											
		KENDRICK	RESERVOIR (North Platte											
Wyoming	1	PROJECT	River ZE)	Reserved	Alcova Dam - spillway concrete repair.	С	\$ 4,582,000	\$ 3,980,000						\$ 3,980,000
		KENDRICK	ALCOVA POWERPLANT (2											
Wyoming	1	PROJECT	units, 41.4 MW) ALCOVA POWERPLANT (2	Reserved	Unit breaker cable replacement	С	\$ 420,000				\$ 337,000			\$ 337,000
Wvoming	1	KENDRICK PROJECT	units, 41.4 MW)	Reserved	CUI	С	\$ 5,000,000				\$ 5,000,000			\$ 5,000,000 *
,			SEMINOE DAM,											,,
***		KENDRICK	RESERVOIR (N Platte River,			C								
Wyoming	1	PROJECT	CMTA)	Reserved	Right abutment rock reinforcement  Mechanical/Electrical overhaul (turbines/facing plates/wicket	C	\$ 661,000	\$ 661,000						\$ 661,000 *
		KENDRICK	SEMINOE POWERPLANT (3	3	gates/flow meters, rotors, stators, replace core, neutral ground									
Wyoming	1	PROJECT	units, 51.75 MW)	Reserved	transformer, unit breakers, exciters)	С	\$ 60,000,000				\$ 57,300,000			\$ 57,300,000 *
		KENDRICK	SEMINOE POWERPLANT (3	3										
Wyoming	1	PROJECT	units, 51.75 MW)	Reserved	Roof and Window Replacement	С	\$ 2,062,000	\$ 272,000			\$ 1,495,000			\$ 1,767,000
		LYMAN	Stateline Dam (East Fork of		Hillside stabilization above spillway stilling basin. Continued deterioration of the hillside impacts the dams spillway stilling									
Wyoming	1	PROJECT	Smiths Fork Zoned Earthfill)	Transferred	basin and its effectiveness during a flooding event.	E	\$ 500,000			<u> </u>	<u></u>		\$ 500,000	\$ 500,000 *
		MINIDOKA	Grassy Lake Dam and	m c :										
Wyoming	1	PROJECT MINIDOKA	Reservoir Grassy Lake Dam and	Transferred	Repair the leak in the 4 inch bypass pipe in the gate chamber.  14GLD1001: Grassy Lake Dam - Spillway outlet - Repair	D	\$ 50,000	\$ 4,000					\$ 46,000	\$ 50,000 *
Wyoming	1	PROJECT	Reservoir	Transferred	wingwall spalling and erosion damage	E	\$ 10,000			L	<u> </u>		\$ 10,000	\$ 10,000 *
		MINIDOKA	Jackson Lake Dam and			-								
Wyoming	1	PROJECT MINIDOKA	Reservoir Jackson Lake Dam and	Reserved	Jackson Lake Dam - Spillway Concrete Repairs	В	\$ 1,100,000	\$ 411,000	1	-	<del>                                     </del>	\$ 689,000		\$ 1,100,000 *
Wyoming	1	PROJECT	Reservoir	Reserved	Jackson Lake Dam Gate #7 Repair/Replace	С	\$ 469,330	\$ 174,760		<u> </u>	<u></u>	\$ 294,570		\$ 469,330 *
		MINIDOKA	Jackson Lake Dam and	ъ .	ICKD C I D T I V T CT	-								
Wyoming	1	PROJECT	Reservoir	Reserved	JCK Dam Crewhouse/Dam Tender House Roof Repairs  Jackson Lake Dam - Operate all spillway radial gates to full	С	\$ 125,000	\$ 48,000	1	-	-	\$ 77,000		\$ 125,000 *
					open and closed positions. Repair the gates as needed if the					1				
***		MINIDOKA	Jackson Lake Dam and		gates are unable to function to the fully opened and closed	_				1				
Wyoming	1	PROJECT MINIDOKA	Reservoir Jackson Lake Dam and	Reserved	positions.	В	\$ 100,000	\$ 37,500		-	1	\$ 62,500		\$ 100,000 *
Wyoming	1	PROJECT	Reservoir	Reserved	Jackson Dam Downstream Apron Undercutting Repair	В	\$ 26,000	\$ 10,000				\$ 16,000		\$ 26,000 *
- "			GUERNSEY DAM,				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,						
Wyoming	1	NORTH PLATTE PROJECT	RESERVOIR (N Platte Rvr, Diaphragm Earth)	Record	Tailrace concrete repair	E	\$ 2,300,000			1	\$ 2,300,000			\$ 2,300,000
w yoming	1	I KOJEC I	Probinagin carin)	reserved	ramace concrete repair	£	2,300,000	l	1		Ψ 4,300,000	1		φ 2,300,000

<sup>\*</sup>The activities and associated cost estimates identified in this report are projected needs, may not reflect currently funded priorities, and initiation of construction may not be underway at time of publication. The cost estimates listed in the funding categories are preliminary level cost estimates and should not be used for budgeting purposes as they do not meet the requirements for a feasibility level cost estimate and are subject to revision. Additionally, ongoing discussions on cost share for certain transferred works, which involve water users and State and local governments, may affect the ultimate Federal cost share.

Appendix

										Fundir	g Categories*			1
									Appropriated			Non-Federal Financin	ıg	
				Transferred /		MR&R	TD 42 4 1 20 4 1	Reclamation	D 1 ( D	04		D 187 1		E C 4 120 V
State	Congressional District	Authorized Project	Asset Name	Reserved Works	Brief Description of Work Needed	Categorization Rating	Estimated Total Costs	Excluding Dam Safety	Reclamation Dam Safety	Other Federal	Power Financing	Reserved Works Water Users	Operating Partners	Estimated 30-Year MR&R Total
State	District	P-S MBP	Asset Ivalile	WUIKS	Brief Description of Work Needed	Kattiig	Costs	Saicty	Salety	r cuci ai	Financing	water users	rartiers	WIKKER Total
		BUFFALO BILL												
Wyoming	1	DAM MODIF	Buffalo Bill Visitor Center	Reserved	Buffalo Bill Visitor's Center Parking Lot Feasibility Design	C	\$ 330,000			\$ 330,000				\$ 330,000
		P-S MBP BUFFALO BILL												
Wyoming	1	DAM MODIF	Shoshone Powerplant (1 unit)	Reserved	Turbine/stator/rotor refurb/replacement and mechanical overhaul	D	\$ 15,000,000				\$ 15,000,000			\$ 15,000,000 *
wyoning	1	P-S MBP	Shoshone rowerplant (runt)	Reserved	Turonic/stator/totor returo/replacement and nicenamear overnau	ь	3 13,000,000				3 13,000,000			\$ 15,000,000
		BUFFALO BILL												
Wyoming	1	DAM MODIF	Shoshone Powerplant (1 unit)	Reserved	Replace excitation system	D	\$ 500,000				\$ 500,000			\$ 500,000 *
					Replace the power and control sections of the exciter which									
		P-S MBP	CINA II D. 1 III		includes voltage regulator, firing control circuits, power									
Wyoming	1	BUFFALO BILL DAM MODIF	Spirit Mountain Powerplant (1	Reserved	amplification circuits, rectifier bridges, and exciter protective devices.	C	\$ 1,230,000				\$ 1,022,000			\$ 1,022,000
w youning		DAWWODI	unit)	Reserved	devices.		3 1,230,000				3 1,022,000			3 1,022,000
		P-S MBP,	BOYSEN DAM, RESERVOIR		Radial gate painting repair, outlet works piping repair and									
Wyoming	1	BOYSEN UNIT	(Wind River ZE)	Reserved	coating, dam spillway and concrete repair.	D	\$ 7,050,000	\$ 7,050,000						\$ 7,050,000
			DOLLARD BOWER D. OF THE		Mechanical/Electrical overhaul (Unit 1 & 2 rewind, AC/DC									
Wyoming	1	P-S MBP, BOYSEN UNIT	BOYSEN POWER FACILITY (2 units)	Reserved	distribution board, new turbines and wicket gates, replace panel/52A and 52B breakers)	С	\$ 77,590,000				\$ 75,640,000			\$ 75,640,000
w yoming	1	P-S MBP,	(2 units) FREMONT CANYON	Reserved	paneroza and 32D Dreakers)		s //,590,000	1	1		\$ 75,040,000			\$ 75,040,000
Wyoming	1	GLENDO UNIT	POWER FACILITY (2 units)	Reserved	Remote breaker control or replacement	С	\$ 500,000				\$ 500,000		I	\$ 500,000 *
, ,			GLENDO DAM, DIKES,		,		,				,			,
		P-S MBP,	RESERVOIR (North Platte			1					İ		I	
Wyoming	1	GLENDO UNIT	River ZE)	Reserved	Steel Outlet Works Pipe Painting	D	\$ 75,000	\$ 75,000		ļ	ļ			\$ 75,000 *
***		P-S MBP,	GLENDO POWER FACILITY	ъ .	D 1 77 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D	6 2 500 000				\$ 2,500,000			6 2 500 000 *
Wyoming	1	GLENDO UNIT P-S MBP,	(2 units) GLENDO POWER FACILITY	Reserved	Replace/Upgrade station service	D	\$ 2,500,000	1	}		a 2,300,000	1	1	\$ 2,500,000 *
Wyoming	1	GLENDO UNIT	(2 units)	Reserved	Replace excitation system	D	\$ 500,000				\$ 500,000			\$ 500,000 *
,	-		GRAY REEF DAM,		i .	i -	223,300	İ	Ì			İ	İ	,
		P-S MBP,	RESERVOIR (North Platte		Recoat upstream, downstream faces and interiors of radial gates						l			
Wyoming	1	GLENDO UNIT	River ZE)	Reserved	where necessary	D	\$ 1,000,000	\$ 1,000,000					ļ	\$ 1,000,000 *
Warrania		P-S MBP, KEYHOLE UNIT	KEYHOLE DAM ROAD	T	Keyhole spillway embankment, roads, crossing and rip rap	С	\$ 500,000	\$ 432,500			İ		\$ 67,500	\$ 500,000 *
Wyoming	1	KEYHULE UNIT	KE THULE DAM RUAD	Transferred	repair	C	\$ 500,000	\$ 452,500	1		<del> </del>		\$ 67,500	\$ 500,000 *
		P-S MBP,	KORTES DAM, RESERVOIR		Left abutment rock removal and repair/replace broken rock									
Wyoming	1	KORTES UNIT	(N Platte River, CG)	Reserved	arrester	С	\$ 5,400,000				\$ 5,400,000			\$ 5,400,000
		P-S MBP,	KORTES DAM, RESERVOIR											
Wyoming	1	KORTES UNIT P-S MBP.	(N Platte River, CG) KORTES POWER FACILITY	Reserved	Replace elevators and controls	В	\$ 1,200,000				\$ 991,000			\$ 991,000
Wyoming	1	KORTES UNIT	(3 units)	Reserved	Penstock intake concrete repair	C	\$ 2,320,000				\$ 2,320,000			\$ 2,320,000 *
wyoming		P-S MBP,	KORTES POWER FACILITY	reserved			3 2,320,000				3 2,320,000			3 2,320,000
Wyoming	1	KORTES UNIT	(3 units)	Reserved	CUI	D	\$ 525,000				\$ 427,000			\$ 427,000
		P-S MBP, O&M-												
		NORTH PLATTE												
Wyoming	1	AREA	Casper Control Center	Reserved	HVAC Replacement	С	\$ 1,205,400	\$ 1,150,400						\$ 1,150,400
					Proposed dam safety modifications include partial removal and abandonment of the existing spillway and construction of a new									
		P-S MBP,	BULL LAKE DAM (Bull Lake		spillway with appropriate defensive measures to resist internal									
Wyoming	1	RIVERTON UNIT		Transferred	erosion of the spillway foundation.	A	\$ 69,000,000		\$ 8,113,000					\$ 8,113,000
		P-S MBP,				1					l		I	
W		TRANSMISSION DIVISION	Carrier Current Comm Equip, Radio Relay Stn (Casper)	Reserved	Replace generator building	D	\$ 664,000				\$ 15,000			\$ 15,000
Wyoming	1	P-S MBP,	Kauro Keray Sin (Casper)	Keserved	replace generator building	D	\$ 664,000	1	}		\$ 15,000	1	1	\$ 15,000
		TRANSMISSION	Carrier Current Comm Equip,		CUI						1			
Wyoming	1	DIVISION	Radio Relay Stn (Casper)	Reserved	-	С	\$ 739,000	\$ 207,000			<u> </u>	<u> </u>	<u> </u>	\$ 207,000
		SEEDSKADEE												
Wyoming	1	PROJECT	Fontenelle Dam and Reservoir	Reserved	Refurbish Fixed Wheel Gate Hydraulic System	С	\$ 225,000	ļ		ļ	\$ 225,000			\$ 225,000 *
Warenin -	1	SEEDSKADEE	Fontanalla Daw Dl+	Page	Pople company of Ganagatar Panyin J	C	\$ 3,625,000				\$ 2,625,000		I	\$ 3,625,000 *
Wyoming	1	PROJECT SEEDSKADEE	Fontenelle Power Plant	Reserved	Replacement of Generator Rewind		3 3,023,000	1	1		\$ 3,625,000			\$ 3,023,000 *
Wyoming	1	PROJECT	Fontenelle Power Plant	Reserved	Replacement/Upgrade of Turbine Runner	С	\$ 2,600,000				\$ 2,600,000		I	\$ 2,600,000 *
, ,			BUFFALO BILL DAM,		. 10		,,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,
		SHOSHONE	RESERVOIR (Shoshone					1.			1			
Wyoming	1	PROJECT (MB)	River, CTA)	Reserved	Dam intake sediment removal	C	\$ 5,000,000	\$ 5,000,000	ļ		ļ			\$ 5,000,000 *
Wyoming	1	SHOSHONE PROJECT (MB)	DEAVER RECREATION FACILITIES	Reserved	Deaver Reservoir Roads Improvements	E	S 918,500			\$ 918,500	İ		I	\$ 918,500
w yoming	1	L KOJEC I (MB)	FRANNIE DIVISION	Reserved	Fill the void behind the Deaver Canal Chute No. 2 and repair.	E	918,500	1	}	s 918,500	<del> </del>	1	1	o 918,500
		SHOSHONE	DRAINS (Deaver Irrigation		Replacement of the entire structure is planned for FY2030,	1					İ		I	
Wyoming	1	PROJECT (MB)	District)	Transferred	pending funding.	В	\$ 1,200,000	<u> </u>		<u> </u>	<u> </u>	<u> </u>	\$ 1,200,000	\$ 1,200,000 *
			FRANNIE DIVISION											
		SHOSHONE	DRAINS (Deaver Irrigation	m -	Repair or replace missing concrete in the Frannie Canal Chute						İ			
Wyoming	1	PROJECT (MB) SHOSHONE	District) WILLWOOD DIVERSION	Transferred	No. 1 stilling basin  Repair the left sluice gate to bring it back to operating	С	\$ 300,000	1	-				\$ 300,000	\$ 300,000 *
Wyoming	1	PROJECT (MB)	DAM	Transferred	conditions. Replacement of entire gates.	D	\$ 300,000				İ		\$ 300,000	\$ 300,000 *
joaning		oveci (MD)	p	. runniterred	responsement or entire gates.		~ 500,000	1		1	L	l .	- 500,000	500,000

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